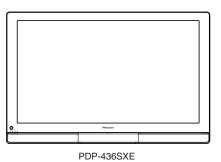
# Pioneer sound.vision.soul

# Service Manual



ORDER NO. ARP3333

PLASMA DISPLAY SYSTEM

# PDP-436SXE PDP-436RXE

#### THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Туре	Power Requirement	Remarks
PDP-436SXE	WYVIXK5	AC220 - 240V	
PDP-436RXE	WYVIXK5	AC220 - 240V	
PDP-436RXE	WYVI5	AC220 - 240V	



For details, refer to "Important Check Points for good servicing".

PIONEER CORPORATION 4-1, Meguro 1-chome, Meguro-ku, Tokyo 153-8654, Japan PIONEER ELECTRONICS (USA) INC. P.O. Box 1760, Long Beach, CA 90801-1760, U.S.A. PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium PIONEER ELECTRONICS ASIACENTRE PTE. LTD. 253 Alexandra Road, #04-01, Singapore 159936 © PIONEER CORPORATION 2006

# **SAFETY INFORMATION**

!

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

#### WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

#### NOTICE

(FOR CANADIAN MODEL ONLY)

■ Fuse symbols - (fast operating fuse) and/or - (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

#### REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

#### SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis.

The following precautions should be observed:

- When service is required, even though the PDP UNIT an isolation transformer should be inserted between the power line and the set in safety before any service is performed.
- 2. When replacing a chassis in the set, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, adjustment and compartment covershields, isolation resistor-capacitor, etc.
- 3. When service is required, observe the original lead dress. Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
  - 4. Always use the manufacture's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacture's. Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.
  - 5. Before returning a serviced set to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the set by the manufacture has become defective, or inadvertently defeated during servicing. Therefore, the following checks should be

performed for the continued protection of the customer and

- 6. Perform the following precautions against unwanted radiation and rise in internal temperature.
- Always return the internal wiring to the original styling.
- Attach parts (Gascket, Ferrite Core, Ground, Rear Cover, Shield Case etc.) surely after disassembly.
- 7. Perform the following precautions for the PDP panel.
- When the front case is removed, make sure nothing hits the panel face, panel corner, and panel edge (so that the glass does not break).
- Make sure that the panel vent does not break. (Check that the cover is attached.)
- Handle the FPC connected to the panel carefully.

  Twisting or pulling the FPC when connecting it to the connector will cause it to peel off from the panel.
- 8. Pay attention to the following.
- Pay extreme caution when the front case and rear panel are removed because this may cause a high risk of disturbance to TVs and radios in the surrounding.

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servicetechnician.

PDP-436SXE

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#### **Leakage Current Cold Check**

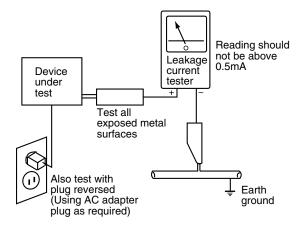
With the AC plug removed from an AC power source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC 500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (input/output terminals, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of  $0.3 M\Omega$  and a maximum resistor reading of  $5 M\Omega$ . Any resistor value below or above this range indicates an abnormality which requires corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

#### **Leakage Current Hot Check**

Plug the AC line cord directly into an AC power source (do not use an isolation transformer for this check).

Turn the AC power switch on.

Using a "Leakage Current Tester (Simpson Model 229 equivalent)", measure for current from all exposed metal parts of the cabinet (input/output terminals, screwheads, metal overlays, control shaft, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 0.5mA.



AC Leakage Test

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ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE SET TO THE CUSTOMER.

#### PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in PIONEER set have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a  $\triangle$  on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

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## **■** Charged Section

The places where the commercial AC power is used without passing through the power supply transformer.

If the places are touched, there is a risk of electric shock. In addition, the measuring equipment can be damaged if it is connected to the GND of the charged section and the GND of the non-charged section while connecting the set directly to the commercial AC power supply. Therefore, be sure to connect the set via an insulated transformer and supply the current.

- B 1. Power Cord
  - 2. AC Inlet
  - 3. Power Switch (S1)
  - 4. Fuse (In the POWER SUPPLY Unit)
  - 5. STB Transformer and Converter Transformer (In the POWER SUPPLY Unit)
- 6. Other primary side of the POWER SUPPLY Unit

#### **■**High Voltage Generating Point

The places where voltage is 100V or more except for the charged places described above. If the places are touched, there is a risk of electric shock.

If the procedures described in "7.1.4 POWER ON/OFF FUNCTION FOR THE LARGE-SIGNAL SYSTEM" are performed before the power is turned off, the voltage will be discharged in about 30 seconds.

1. POWER SUPPLY Unit	(203V)
2. 43 X DRIVE Assy	(-180V to 203V)
3. 43 Y DRIVE Assy	(500V)
4. 43 SCAN A Assy	(500V)
5. 43 SCAN B Assy	(500V)
6. SUS CLAMP 1 Assy	(-180V to 203V)
7. SUS CLAMP 2 Assy	(-180V to 203V)

: Part is Charged Section.

: Part is the High Voltage Generating Points other than the Charged Section.

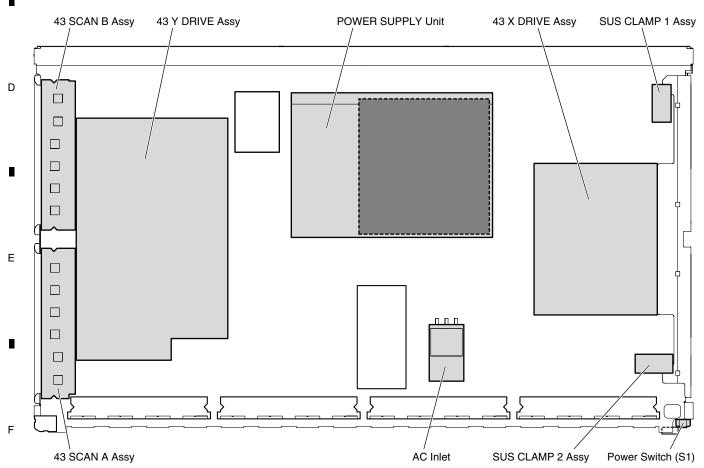


Fig.1 Charged Section and High Voltage Generating Point (Rear View)

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In this manual, procedures that must be performed during repairs are marked with the below symbol. Please be sure to confirm and follow these procedures.

#### Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

1) Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

3 Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

4 Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

6 Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

® There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

10 Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

#### 2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

#### 3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

#### 4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

#### 5. Shipping mode and Shipping screws

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To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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	8. PANEL FACILITIES	

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Item			43" Plasma Display, Model: PDP-436SXE/PDP-436RXE
Number of Pix	els		1024 x 768 pixels
Audio Amplifie	r		13 W + 13 W (1 kHz, 10 %, 8 Ω)
Speakers			Bass-reflex type (two-way system)
Surround Syst	em		SRS/FOCUS/TruBass
Power Require	ement		220-240 V AC, 50/60 Hz, 291 W : SXE / 287 W : RXE (0.8 W Standby : SXE / 0.4 W Standby : RXE)
Dimensions			1076 (W) X 696 (H) X 116 (D) mm
Weight			31.8 kg (70.1 lbs.) (SXE), 31.2 kg (68.8 lbs.) (RXE)
Colour System	1	Analogue	PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60
		Digital (*)	PAL/SECAM
TV Function	Receiving Syst	tem	B/G, D/K, I, L/L'
(Analogue)	Tuner	VHF/UHF	E2-E69ch, F2-F10ch, I21-I69ch, IR A-IR Jch
		CATV	Hyper-band, S1-S41ch
	Auto Channel	Preset	99 ch, Auto Preset, Auto Label, Auto Sort
	STEREO		NICAM/A2
TV Function	Receiving Syst	tem (*)	DVB-T (2K/8K COFDM)
(Digital)	Tuner (*)	VHF/UHF	VHF Band III (170 to 230 MHz) and UHF Band IV, V (470 to 862 MHz)
	Auto Channel	Preset (*)	999 ch, Auto Preset, Auto Label, Auto Sort
	STEREO (*)		MPEG layer I/II, Dolby Digital
Terminals	Rear	INPUT 1	SCART (AV in, RGB in, TV out)
		INPUT 2	SCART (AV in/out, S-VIDEO in, AV link *1), Component Video in
		INPUT 3	SCART (AV in/out, S-VIDEO in, RGB in, AV link *1), HDMI in*2
		Antenna	75 Ω Din Type for VHF/UHF in (Analogue)
			75 $\Omega$ Din Type for VHF/UHF in (Digital) (*)
			75 Ω Din Type for VHF/UHF out (Digital) (*)
	Front	INPUT 4	S-VIDEO,AV in
AUDIO OUTP	UT Terminal	(Rear)	AUDIO out (Fixed)
DIGITAL OUT	Terminal (*)		Digital audio output (Optical)
COMMON INT	TERFACE (*)	(Rear)	CA Module

Switchable (\*): 436SXE Model only

Design and specifications are subject to change without notice.

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- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories. (SXE model only)
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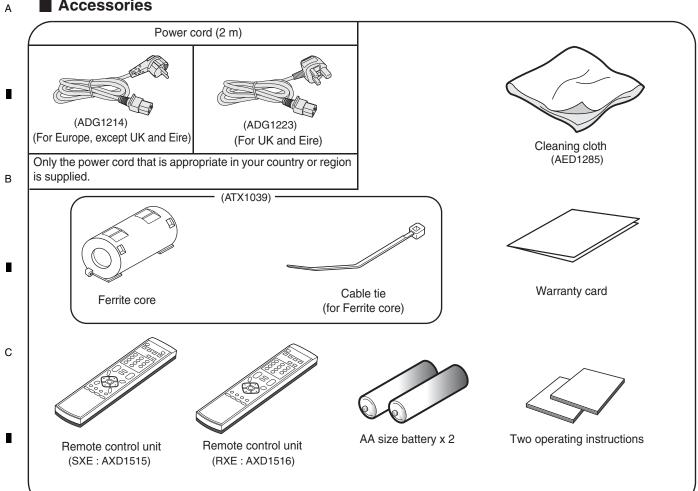
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This conforms to HDMI1.1 and HDCP1.1.

HDMI (High Definition Multimedia Interface) is a digital interface that handles both video and audio using a single cable.

HDCP (High-bandwidth Digital Content Protection) is a technology used to protect copyrighted digital contents that use the Digital Visual Interface (DVI).

#### Accessories



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PDP-436SXE

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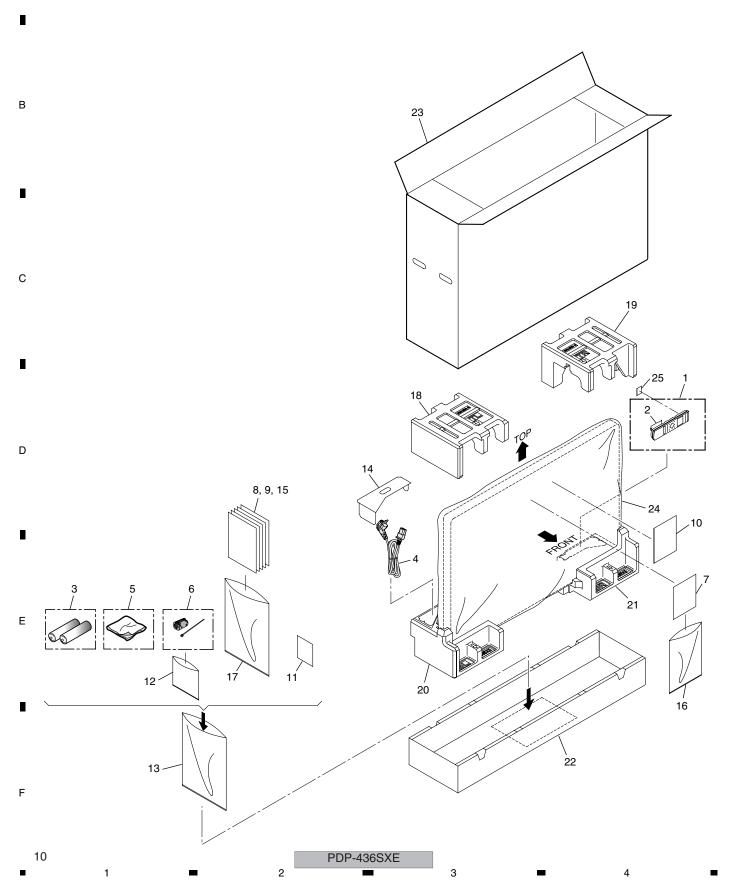
# 2. EXPLODED VIEWS AND PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Screws adjacent to **▼** mark on product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

#### 2.1 PACKING SECTION

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## (1) PACKING PARTS LIST

Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.
1	Remote Control Unit	See Contrast table (2)	15	Block Diagram	See Contrast table (2)
2	Battery Cover	AZA7424	16	Polyethylene Bag	See Contrast table (2) A
NSP 3	Dry Cell Battery (R6P, AA)	VEM1031	NSP 17	Vinyl Bag	AHG1340
<u> </u>	Power Cord (2 m)	ADG1214	18	Pad (T-L)	See Contrast table (2)
5	Cleaning cloth	AED1285	19	Pad (T-R)	See Contrast table (2)
<u>^</u> 6	Ferrite Core	ATX1039	20	Pad (B-L)	See Contrast table (2)
NSP 7	Warranty	ARY1114	21	Pad (B-R)	See Contrast table (2)
8	Operating Instructions	See Contrast table (2)	22	Under Carton	See Contrast table (2)
	(Italian, Spanish, Dutch)	. ,	23	Upper Carton	See Contrast table (2)
9	Operating Instructions	See Contrast table (2)	24	Mirror Mat	See Contrast table (2)
	(English, French, German)		25	WEEE Label	AAX3271
					В
10	Caution Card	ARM1232			
11	Cleaning Caution	ARM1283			
12	Vinyl Bag	AHG1337			
13	Air Cap Bag	AHG1367			
14	Power Cord Case	See Contrast table (2)			

(2) CONTRAST TABLE PDP-436SXE/WYVIXK5, PDP-436RXE/WYVIXK5 and WYVI5 are constructed the same except for the following:

Mark	No.	Symbol and Description	PDP-436SXE /WYVIXK5	PDP-436RXE /WYVIXK5	PDP-436RXE /WYVI5
	1	Remote Control Unit	AXD1515	AXD1516	AXD1516
	8	Operating Instructions (Italian, Spanish, Dutch)	ARC1553	ARC1552	ARC1551
	9	Operating Instructions (English, French, German)	ARE1407	ARE1406	ARE1405
	14	Power Cord Case	AHC1076	AHC1076	AHC1075
	15	Block Diagram	ARY1183	ARY1183	Not used
	16	Polyethylene Bag	AHG1326	AHG1326	Not used
NSP	16	Vinyl Bag	Not used	Not used	AHG1340
	18	Pad (436XE T-L)	AHA2524	AHA2524	Not used
	18	Pad (436SX T-L)	Not used	Not used	AHA2467
	19	Pad (436XE T-R)	AHA2525	AHA2525	Not used
	19	Pad (436SX T-R)	Not used	Not used	AHA2468
	20	Pad (436XE B-L)	AHA2526	AHA2526	Not used
	20	Pad (436SX B-L)	Not used	Not used	AHA2469
	21	Pad (436XE B-R)	AHA2527	AHA2527	Not used
	21	Pad (436SX B-R)	Not used	Not used	AHA2470
	22	Under Carton (436XE)	AHD3454	AHD3454	Not used
	22	Under Carton (436)	Not used	Not used	AHD3346
	23	Upper Carton (436SXE)	AHD3445	Not used	Not used
	23	Upper Carton (436RXE)	Not used	AHD3444	AHD3467
	24	Mirror Mat	AHG1327	AHG1327	AHG1284

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# (1) REAR SECTION PARTS LIST

Mark	<u>No.</u>	Description	Part No.	Mark No.	<u>Description</u>	Part No.	
	1	SR Assy	AWW1088	NSP 35	Insulation Bush	••••	
	2	LED Assy	AWW1091				Α
	3	••••		NSP 36	Insulation Spacer	••••	
	4	FRONT Assy	AWW1090	NSP 37	Spacer	••••	
	5	KEY Assy	AWW1093	38	Screw	ABA1341	
		,		39	Screw (3 x 40P)	ABA1332	
	6	Rear Case (436SX)	ANE1648	40	Hex Head Screw	ABA1345	_
	7	Terminal Label	See Contrast table (2)				
<u> </u>	8	Cushion	AED1288	41	Screw	ABA1338	
	9	Rear Case Cushion	AEB1439	42	Screw	ABA1340	
	10	Bolt Caution Label	See Contrast table (2)	43	Hexagon Screw	BBA1051	
			, ,	44	Screw	AMZ30P060FTB	
NSP	11	Name Label	See Contrast table (2)	45	Screw	TBZ40P080FTB	В
	12	Under Cover (436SX)	ANE1649				
	13	Terminal Panel E	See Contrast table (2)	46	Screw	AMZ30P060FTB	
<u> </u>	14	AC Inlet (CN1)	AKP1275	47	Screw	ABZ30P080FTB	
	15	••••		48	Screw	BBZ40P180FTB	
				49	Screw	APZ30P100FTB	
<u> </u>	16	FFC Cushion	AEB1442	50	Screw	BPZ30P080FTB	-
	17	Control Button (SX)	AAC1556				
	18	4P Housing Wire (J126)	ADX3206	51	••••		
	19	Front Shield Chassis	ANK1816	52	••••		
	20	Wire Saddle	AEC2031	53	Screw	BBB30P120FNI	
				54	••••		С
	21	8P Housing Wire (J127)	ADX3207	NSP 55	Screw	• • • •	
	22	Speaker Box Assy L	AMW1006				
	23	Speaker Box Assy R	AMW1007	NSP 56	Screw	••••	
NSP	24	Speaker (Tweeter)	••••	NSP 57	Screw	• • • • •	
NSP	25	Speaker (Woofer)	••••	58	Screw	AMZ30P080FTC	
				59	Screw	ABA1322	
NSP	26	Speaker Box L	••••	NSP 60	4P Housing Wire (J201)	• • • • •	
NSP	27	Speaker Box R	••••				
NSP	28	Speaker Buffle L	••••	NSP 61	4P Housing Wire (J101)	••••	
NSP	29	Speaker Buffle R	••••	62	Locking Wire Saddle	AEC1948	D
NSP	30	Serial Sheet	AAX3143	NSP 63	Screw	••••	
				64	Washer	WC40FTB	
NSP	31	Cushion	••••	65	Protect sheet C	AED1300	
NSP	32	Speaker Stay L	••••				
NSP	33	Speaker Stay R	••••	66	Protect sheet B	AED1299	_
NSP	34	Wire Saddle	••••	67	Protect sheet A	AED1298	

### (2) CONTRAST TABLE

PDP-436SXE/WYVIXK5, PDP-436RXE/WYVIXK5 and WYVI5 are constructed the same except for the following:

Mark	No.	Symbol and Description	PDP-436SXE /WYVIXK5	PDP-436RXE /WYVIXK5	PDP-436RXE /WYVI5
	7	Terminal Label (SXE)	AAX3241	Not used	Not used
	7	Terminal Label (RXE)	Not used	AAL3240	AAL3242
	10	Bolt Caution Label XE	AAX3243	AAX3243	AAX3244
NSP	11	Name Label (436SXE)	AAL2724	Not used	Not used
NSP	11	Name Label (436RXE)	Not used	AAL2723	AAL2725
	13	Terminal Panel E SXE	ANC2385	Not used	Not used
	13	Terminal Panel E RXE	Not used	ANC2384	ANC2384

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Refer to "2.4 CHASSIS SECTION (1/2)".

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PDP-436SXE

### (1) FRONT SECTION PARTS LIST

Mark No.	<u>Description</u>	Part No.	
1	Front Case Assy 43	See Contrast table (2)	
NSP 2	Front Case (436SX)	AMB2875	
3	Punching Sheet (L)	See Contrast table (2)	
4	Punching Sheet (R)	See Contrast table (2)	
5	Punching Sheet E (door)	AAS1008	
6	Front Terminal Sheet E	AAK2875	
7	Door	AAN1485	
8	••••		
9	Door Cushion	AED1268	
10	Catcher	AEC2040	
11	Pioneer Badge	AAM1096	
12	Gear Damper	AXA1020	
13	Screw	APZ30P100FTB	
NSP 14	LED Lens	AAK2848	
15	Panel Cushin V (43)	AED1256	
16	Panel Cushin H (43)	AED1286	
17	Blind Cushion (436SX)	AEB1420	
18	Power Button	AAD4133	
19	Coil Spring	ABH1120	

(2) CONTRAST TABLE PDP-436SXE/WYVIXK5, PDP-436RXE/WYVIXK5 and WYVI5 are constructed the same except for the following:

Mark	No.	Symbol and Description	PDP-436SXE /WYVIXK5	PDP-436RXE /WYVIXK5	PDP-436RXE /WYVI5
	1	Front Case Assy 43SXE	AMB2892	Not used	Not used
	1	Front Case Assy 43RXE	Not used	AMB2891	AMB2891
	3	Punching Sheet SXE (L)	AAS1013	Not used	Not used
	3	Punching Sheet E (L)	Not used	AAS1005	AAS1005
	4	Punching Sheet SXE (R)	AAS1007	Not used	Not used
	4	Punching Sheet RXE (R)	Not used	AAS1006	AAS1006

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PDP-436SXE

# (1) CHASSIS SECTION (1/2) PARTS LIST

<u>Mark</u>	No.	Description	Part No.
	1	IR Assy	AWW1092
<u> </u>	2	Power Switch (S1)	ASG1092
	3	Power Housing Wire (43)(J103)	ADX3291
<u> </u>	4	Fan Motor 80 x 25L	AXM1052
	5	Floating Rubber 80	AEB1427
	6	Fan Holder	ANG2833
	7	Sub Frame L Assy 436SX	ANA1889
	8	Sub Frame R Assy 436SX	ANA1890
	9	Wire Saddle	AEC1745
	10	Chassis Support	AMR3475
	11	Front Chassis H Assy 436SX	ANA1924
	12	Panel Holder V1 (43)	ANG2773
	13	Panel Holder V2 (43)	ANG2774
	14	Front Chassis VL (436SX)	AMA1018
	15	Front Chassis VR (436SX)	AMA1019
	16	Panel Holder H (43)	ANG2772
	17	3P Housing Wire (J124)	ADX3204
	18	Screw	ABA1341
	19	Screw	TBZ40P080FTB
	20	Screw	AMZ30P060FTB
			4.D.700.D00.C.===
	21	Screw	APZ30P080FTB
	22	Screw	ABZ30P080FTC
	23	Screw	VBB30P080FNI
	24	Screw	BPZ30P080FTB
	25	Screw	BBZ30P060FTC
	26	Screw	APZ30P100FTB
	27	Waterproof Cushion	AEB1424
	28	Binder	See Contrast table (2)
	29	Insulation Sheet	AED1289
<u> </u>	30	Gasket AV	ANK1817
4	30	Gasket AV	MINIX 1017
	31	Re-use Clamp	AEC2083
	32	Ferrite Core	See Contrast table (2)
	33	Ferrite Core Holder	See Contrast table (2)
	34	Cushion	See Contrast table (2)
		-	(-)

### (2) CONTRAST TABLE

PDP-436SXE/WYVIXK5, PDP-436RXE/WYVIXK5 and WYVI5 are constructed the same except for the following:

Mark	No.	Symbol and Description	PDP-436SXE /WYVIXK5	PDP-436RXE /WYVIXK5	PDP-436RXE /WYVI5
	28	Binder	Not used	AEC-093	AEC-093
	32	Ferrite Core	ATX1060	Not used	Not used
	33	Ferrite Core Holder	AEC1818	Not used	Not used
	34	Cushion	Not used	Not used	AEB1441

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PDP-436SXE

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CHASSIS	<b>SECTION</b> (	(2/2) PA	ARTS	LIST

Mark	<u>No.</u>	<u>Description</u>	Part No.
	1	43 X DRIVE Assy	AWW1074
	2	SUS CLAMP 1 Assy	AWW1022
	3	SUS CLAMP 2 Assy	AWW1023
	4	43 Y DRIVE Assy	AWV2256
	5	OB DIGITAL Assy	AWV2244
	O	OB BIGINE 7.669	7.00 V Z L T T
	6	PANEL SENSOR Assy	AWW1094
	7	SUB POWER Assy	AWW1095
<u> </u>	8	POWER SUPPLY Unit	AXY1133
	9	Ferrite Core	ATX1048
	10	Flexible Cable (J201)	ADD1299
	10	Tiexible Gable (0201)	ADD 1200
	11	Flexible Cable (J202)	ADD1300
	12	Flexible Cable (J203)	ADD1301
	13	Flexible Cable (J204)	ADD1302
	14	Flexible Cable (J205)	ADD1303
	15	Flexible Cable (J206)	ADD1304
	15	1 lexible dable (0200)	ADD 1004
	16	4P Housing Wire (J108)	ADX3131
	17	6P Housing Wire (J121)	ADX3201
	18	8P Housing Wire (J128)	ADX3208
	19	3P Housing Wire (J123)	ADX3208 ADX3203
	20	3P Housing Wire (J113)	ADX3203 ADX3136
	۷2	or ribusing wile (0113)	ADA0100
	21	14P Housing Wire(J122)	ADX3202
	22	3P Housing Wire (J125)	ADX3205
	23	9P Housing Wire (J101)	ADX3124
	24	Housing Wire (J120)	ADX3290
	25	10P Housing Wire (J133)	ADX3214
	_0		
	26	6P Housing Wire (J107)	ADX3130
	27	Conductive Plate XA	ANG2776
	28	Ferrite Core Holder	AEC1818
	29	Ferrite Core	ATX1044
	30	Circuit Board Spacer	AEC2047
	50	S. Jan Board Opdoor	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	31	Flat Clamp	AEC1879
	32	PCB Spacer	AEC1941
	33	Drive Silicone Sheet	AEH1095
	34	Power Sheet	AMR3447
	35	••••	
	36	Wire Saddle	AEC1745
	37	FPC (50P) 180 mm	ADY1102
	38	Mini Clamp	AEC1971
	39	Nyron Rivet	AEC1671
	40	Screw	PMB30P060FTC
			\/DD00D00D00
	41	Screw	VBB30P080FNI
	42	PCB Support	AEC1938

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PDP-436SXE 7

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↔ SUB POWER CN7502

↔ OB DIGITAL CN3002

↔ OB DIGITAL CN3001

↔ SUB POWER CN7503 9

 $\leftrightarrow$  Fan Motor

PDP-436RXE

↔ SR CN7601 31 10-

> ↔ LED CN8001

PDP-436RXE

PDP-436SXE only

only

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FRONT ↔ CN7804

18 SPEAKER BOX ↔ Assy L, R

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 $\begin{array}{c} \textbf{POWER SUPPLY} \leftrightarrow \\ \textbf{P5} \end{array}$ 

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PDP-436SXE only

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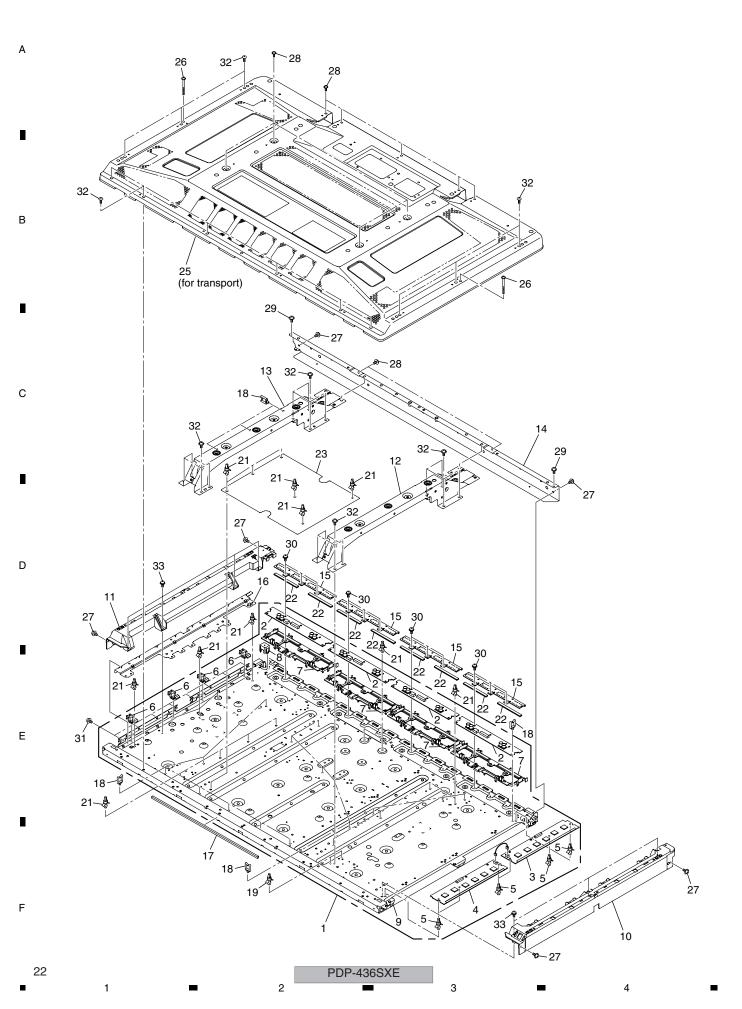
## (1) AV BLOCK PARTS LIST

Mark N	<u>o.</u>	<b>Description</b>	Part No.	Mark No	<u>).</u>	<u>Description</u>	Part No.	
	1	R06 D-TUNER Assy	See Contrast table (2)	21	1	Gasket B	ANK1812	
2	2	OBE MAIN Assy	See Contrast table (2)	22	2	Gasket C	ANK1813	Α
(	3	AUDIO Assy	AWW1087	<u> </u>	3	Gasket XE	ANK1818	
4	4	TUNER Assy	AWW1089	24	4	Clamp	AEC1884	
Ę	5	Flexible Cable (J208)	ADD1340	25	5	Card Spacer	AEC1957	
(	6	Flexible Cable (J210)	See Contrast table (2)	26	3	Locking Card Spacer	AEC1801	
-	7	Flexible Cable (J211)	See Contrast table (2)	27	7	Locking Card Spacer	AEC2019	
8	В	Flexible Cable (J212)	ADD1337	28	3	Terminal Support	See Contrast table (2)	
9	9	12/16P Housing Wire (J129)	See Contrast table (2)	29	9	• • • • •		
1	0	9P Housing Wire (J130)	ADX3261	30	)	••••		
1	1	13P Housing Wire (J131)	ADX3211	31	1	Screw	PMB30P080FNI	В
1	2	8P Housing Wire (J132)	ADX3212	32	2	Screw	AMZ30P060FTB	
1	3	AV Base Chassis E	ANA1902	33	3	Screw	See Contrast table (2)	
1	4	Tuner Prop E	AND1194	34	4	Screw	See Contrast table (2)	
1	5	Frontend Base	ANG2868	35	5	Screw	See Contrast table (2)	
1	6	Frontend Shield	ANG2935					
1	7	Rear Cover	See Contrast table (2)					
1	8	Spacer	AEC1256					
<u> </u>	9	Gasket N	See Contrast table (2)					
2	20	Gasket A	ANK1811					С

#### (2) CONTRAST TABLE

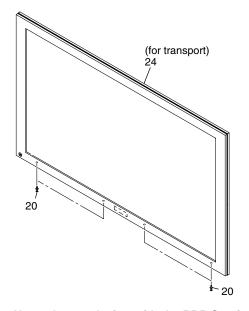
PDP-436SXE/WYVIXK5, PDP-436RXE/WYVIXK5 and WYVI5 are constructed the same except for the following:

Mark	No.	Symbol and Description	PDP-436SXE /WYVIXK5	PDP-436RXE /WYVIXK5	PDP-436RXE /WYVI5
	1	R06 D-TUNER Assy	AWE1304	Not used	Not used
	2	OBE MAIN Assy	AWV2238	AWV2239	AWV2239
	6	Flexible Cable (J210)	ADD1335	Not used	Not used
	7	Flexible Cable (J211)	ADD1341	Not used	Not used
	9	12P/16P Housing Wire (J129)	ADX3277	Not used	Not used
	9	16P Housing Wire (J129)	Not used	ADX3260	ADX3260
	17	Rear Cover	AMR3425	Not used	Not used
<u> </u>	19	Gasket N	ANK1776	Not used	Not used
	28	Terminal Support	Not used	ANG2869	ANG2869
	33	Screw	ABA1341	ABA1341	ABA1335
	34	Screw	BBZ30P060FTB	Not used	Not used
	35	Screw	AMZ30P080FTC	Not used	Not used



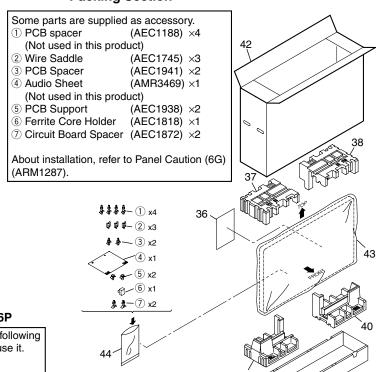
#### • Front Section

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#### Packing Section

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#### Note when replacing with the PDP Service Assy 436P

This Assy is supplied with common use product. Because the following components do not use it with this unit, detach it, and please use it.

- Front Chassis H Assy (43)(ANA1884)
- Front Chassis VL (43) (AMA1016)
- Front Chassis VR (43) (AMA1017)
- Sub Frame L Assy (436) (ANA1864)
- Sub Frame R Assy (436) (ANA1865)

#### PDP SERVICE ASSY 436P (AWU1135) PARTS LIST

NSP 1       Panel Chassis (436) Assy       AWU1145         NSP 2       43 ADDRESS Assy       AWV2204       25       Rear Case (436)       ANE1640         NSP 3       43 SCAN A Assy       AWW1018       (for transport)         NSP 4       43 SCAN B Assy       AWW1019       26       Screw (3x40P)       ABA1332         5 PCB Spacer       AEC1944       27       Screw       ABZ30P080FTC         6 Conductive Plate Holder       AMR3446       27       Screw       APZ30P080FTB         8 Tube Cover       AMR3445       30       Screw       BBB30P120FNI         NSP 9 Chassis Assy (436)       ANA1833       31       Screw       PMB30P060FTC         10 Front Chassis VL (43)       AMA1016       32       Screw       TBZ40P080FTB       ■         11 Front Chassis VR (43)       AMA1017       35       Screw       VBB30P080FNI       ■         11 Front Chassis H Assy (436)       ANA1864       34       •••••         13 Sub Frame R Assy (436)       ANA1864       35       •••••         14 Front Chassis H Assy (43)       ANA1884       NSP 36       Panel Caution (6G)       ARM1287       E         15 Address Heatsink (436)       ANH1641       37       Pad (43T-L)       AHA2431
NSP 3 43 SCAN A Assy AWW1018  NSP 4 43 SCAN B Assy AWW1019  5 PCB Spacer AEC1944  6 Conductive Plate Holder AMR3446  7 Adddress Holder Assy (436)  8 Tube Cover AMR3445  10 Front Chassis VL (43)  11 Front Chassis VR (43)  11 Front Chassis VR (43)  12 Sub Frame L Assy (436)  ANA1864  13 Sub Frame R Assy (436)  ANA1865  14 Front Chassis H Assy (43)  ANA1884  NSP 36 Panel Caution (6G)  ARM1287  E  Address Holder Assy (436)  ANA1884  NSP 36 Panel Caution (6G)  ARM1287  E  Address Heatsink (436)  ANA1861  ANA1861  ANA1861  ARM1287  Address Heatsink (436)  ANA1861  ANA1861  ANA1861  ANA1861  ANA1861  ANA1861  ANA1864  ANA1865  ANA1865  ARM1287  ARM12
NSP 4
5 PCB Spacer AEC1944 27 Screw ABZ30P080FTC 28 Screw AMZ30P060FTB D  6 Conductive Plate Holder AMR3446 29 Screw APZ30P080FTB 8 Tube Cover AMR3445 30 Screw BBB30P120FNI NSP 9 Chassis Assy (436) ANA1833 31 Screw PMB30P060FTC 10 Front Chassis VL (43) AMA1016 32 Screw TBZ40P080FTB 33 Screw VBB30P080FNI 11 Front Chassis VR (43) AMA1017 2 Sub Frame L Assy (436) ANA1864 34 *****  13 Sub Frame R Assy (436) ANA1865 35 *****  14 Front Chassis H Assy (43) ANA1884 NSP 36 Panel Caution (6G) ARM1287 E 15 Address Heatsink (436) ANH1641 37 Pad (43T-L) AHA2431
28 Screw AMZ30P060FTB  6 Conductive Plate Holder AMR3446  7 Adddress Holder Assy (436) AMR3455  8 Tube Cover AMR3445  NSP 9 Chassis Assy (436) ANA1833  31 Screw BBB30P120FNI  NSP 9 Chassis VL (43) AMA1016  32 Screw PMB30P060FTC  10 Front Chassis VL (43) AMA1016  33 Screw VBB30P080FNI  11 Front Chassis VR (43) AMA1017  12 Sub Frame L Assy (436) ANA1864  33 Sub Frame R Assy (436) ANA1865  14 Front Chassis H Assy (43) ANA1884  NSP 36 Panel Caution (6G) ARM1287  E Address Heatsink (436) ANH1641  15 Address Heatsink (436) ANH1641
6 Conductive Plate Holder AMR3446 7 Adddress Holder Assy (436) AMR3455 29 Screw APZ30P080FTB 8 Tube Cover AMR3445 30 Screw BBB30P120FNI NSP 9 Chassis Assy (436) ANA1833 31 Screw PMB30P060FTC 10 Front Chassis VL (43) AMA1016 32 Screw TBZ40P080FTB 11 Front Chassis VR (43) AMA1017 12 Sub Frame L Assy (436) ANA1864 34 **** 13 Sub Frame R Assy (436) ANA1865 35 ***** 14 Front Chassis H Assy (43) ANA1884 NSP 36 Panel Caution (6G) ARM1287 E 15 Address Heatsink (436) ANH1641 37 Pad (43T-L) AHA2431
7 Adddress Holder Assy (436) AMR3455 29 Screw APZ30P080FTB 8 Tube Cover AMR3445 30 Screw BBB30P120FNI NSP 9 Chassis Assy (436) ANA1833 31 Screw PMB30P060FTC 10 Front Chassis VL (43) AMA1016 32 Screw TBZ40P080FTB 11 Front Chassis VR (43) AMA1017 12 Sub Frame L Assy (436) ANA1864 34 ***** 13 Sub Frame R Assy (436) ANA1865 35 ***** 14 Front Chassis H Assy (43) ANA1884 NSP 36 Panel Caution (6G) ARM1287 E 15 Address Heatsink (436) ANH1641 37 Pad (43T-L) AHA2431
8 Tube Cover AMR3445 30 Screw BBB30P120FNI NSP 9 Chassis Assy (436) ANA1833 31 Screw PMB30P060FTC 10 Front Chassis VL (43) AMA1016 32 Screw VBB30P080FNI  11 Front Chassis VR (43) AMA1017 12 Sub Frame L Assy (436) ANA1864 34 ***** 13 Sub Frame R Assy (436) ANA1865 35 ***** 14 Front Chassis H Assy (43) ANA1884 NSP 36 Panel Caution (6G) ARM1287 E 15 Address Heatsink (436) ANH1641 37 Pad (43T-L) AHA2431
NSP 9 Chassis Assy (436) ANA1833 31 Screw PMB30P060FTC 10 Front Chassis VL (43) AMA1016 32 Screw VBB30P080FNI  11 Front Chassis VR (43) AMA1017 12 Sub Frame L Assy (436) ANA1864 34 ***** 13 Sub Frame R Assy (436) ANA1865 35 ***** 14 Front Chassis H Assy (43) ANA1884 NSP 36 Panel Caution (6G) ARM1287 E 15 Address Heatsink (436) ANH1641 37 Pad (43T-L) AHA2431
10 Front Chassis VL (43) AMA1016 32 Screw TBZ40P080FTB VBB30P080FNI  11 Front Chassis VR (43) AMA1017 12 Sub Frame L Assy (436) ANA1864 34 ••••• 13 Sub Frame R Assy (436) ANA1865 ANA1865 14 Front Chassis H Assy (43) ANA1884 NSP 36 Panel Caution (6G) ARM1287 E Address Heatsink (436) ANH1641 AHA2431
33 Screw VBB30P080FNI  11 Front Chassis VR (43) AMA1017  12 Sub Frame L Assy (436) ANA1864 34 •••••  13 Sub Frame R Assy (436) ANA1865 35 •••••  14 Front Chassis H Assy (43) ANA1884 NSP 36 Panel Caution (6G) ARM1287 E  15 Address Heatsink (436) ANH1641 37 Pad (43T-L) AHA2431
11 Front Chassis VR (43) AMA1017 12 Sub Frame L Assy (436) ANA1864 13 Sub Frame R Assy (436) ANA1865 14 Front Chassis H Assy (43) ANA1884 15 Address Heatsink (436) ANH1641  AMA1017  34 ****  NSP 36 Panel Caution (6G) ARM1287  Pad (43T-L) AHA2431
12 Sub Frame L Assy (436) ANA1864 34 •••••  13 Sub Frame R Assy (436) ANA1865 35 •••••  14 Front Chassis H Assy (43) ANA1884 NSP 36 Panel Caution (6G) ARM1287 E  15 Address Heatsink (436) ANH1641 37 Pad (43T-L) AHA2431
13 Sub Frame R Assy (436) ANA1865 35 •••••  14 Front Chassis H Assy (43) ANA1884 NSP 36 Panel Caution (6G) ARM1287 E  15 Address Heatsink (436) ANH1641 37 Pad (43T-L) AHA2431
14 Front Chassis H Assy (43) ANA1884 NSP 36 Panel Caution (6G) ARM1287 E 15 Address Heatsink (436) ANH1641 37 Pad (43T-L) AHA2431
15 Address Heatsink (436) ANH1641 37 Pad (43T-L) AHA2431
7 Address Hodger (199)
38 Pad (43T-R) AHA2432
' '
16 Conductive plate XA ANG2776
17 Cushion AEB1424 39 Pad (43B-L) AHA2433
18 Wire Saddle AEC1745 40 Pad (43B-R) AHA2434
19 Circuit Board Spacer AEC1872 41 Under Carton AHD3346
20 Screw Rivet AEC1877 NSP 42 Upper Carton (436 S.V.C) AHD3436
43 Sheet AHG1331
21 PCB Spacer AEC1941
22 Address Silicone A AEH1093 44 Polyethylene Bag S AHG1338
23 Power Sheet AMR3447 F
NSP 24 Front Case Assy 436 service AMB2895
(for transport)

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В

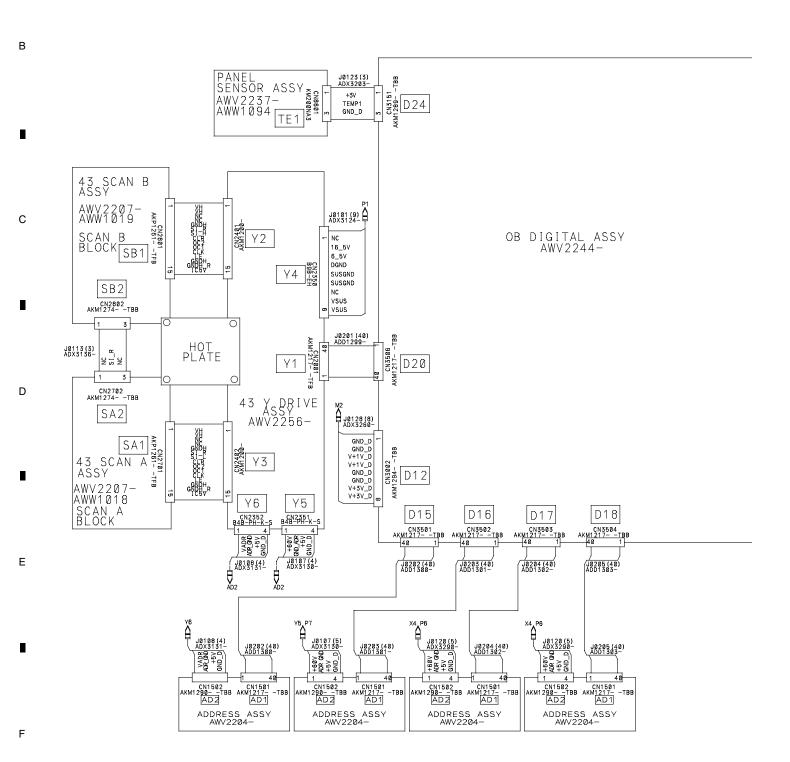
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PDP-436SXE

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# 3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM 3.1 OVERALL CONNECTION DIAGRAM (1/2)

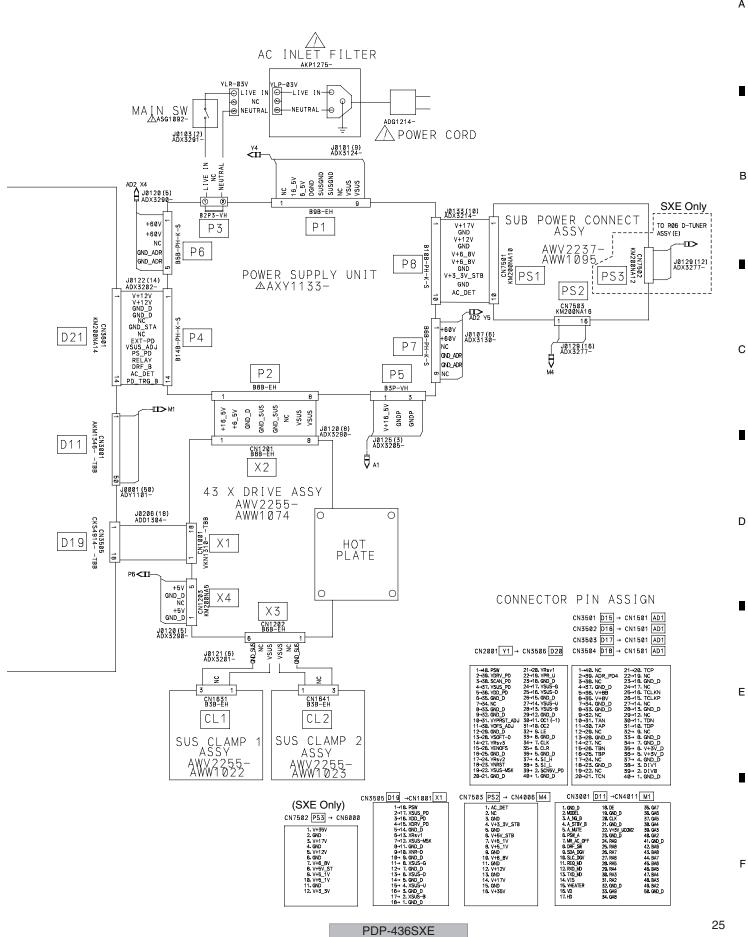
- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.



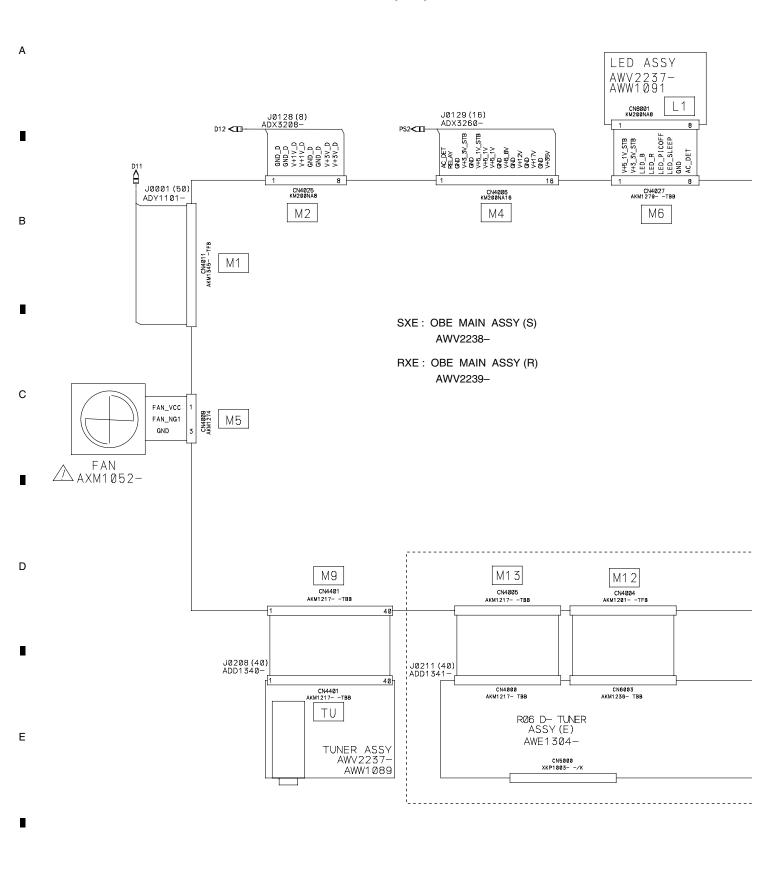
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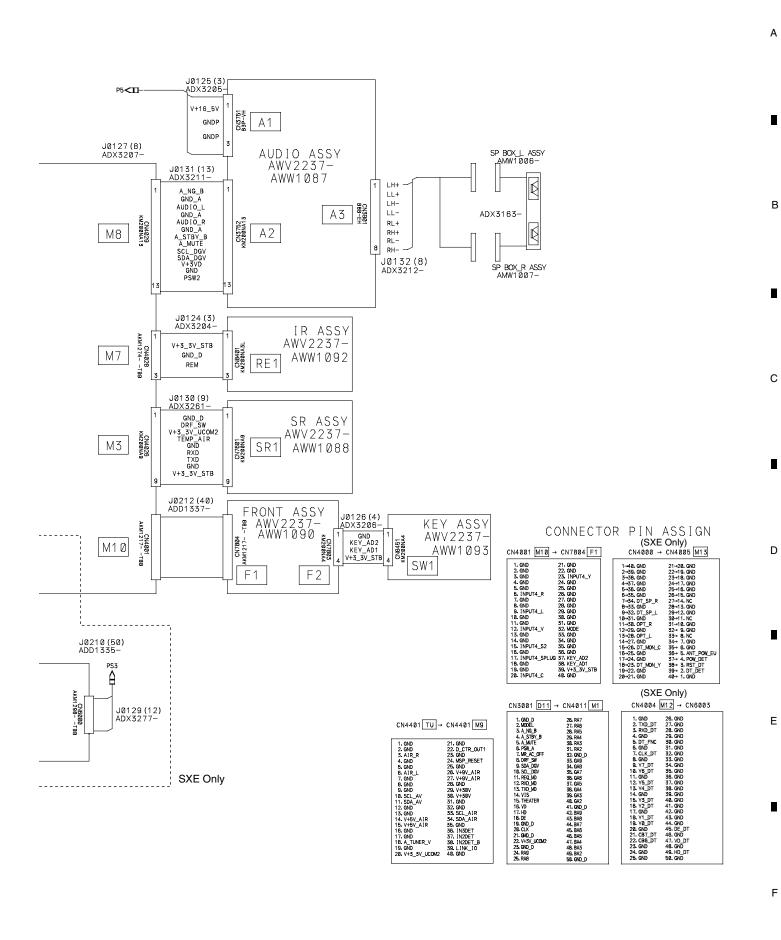
PDP-436SXE



# 3.2 OVERALL CONNECTION DIAGRAM (2/2)

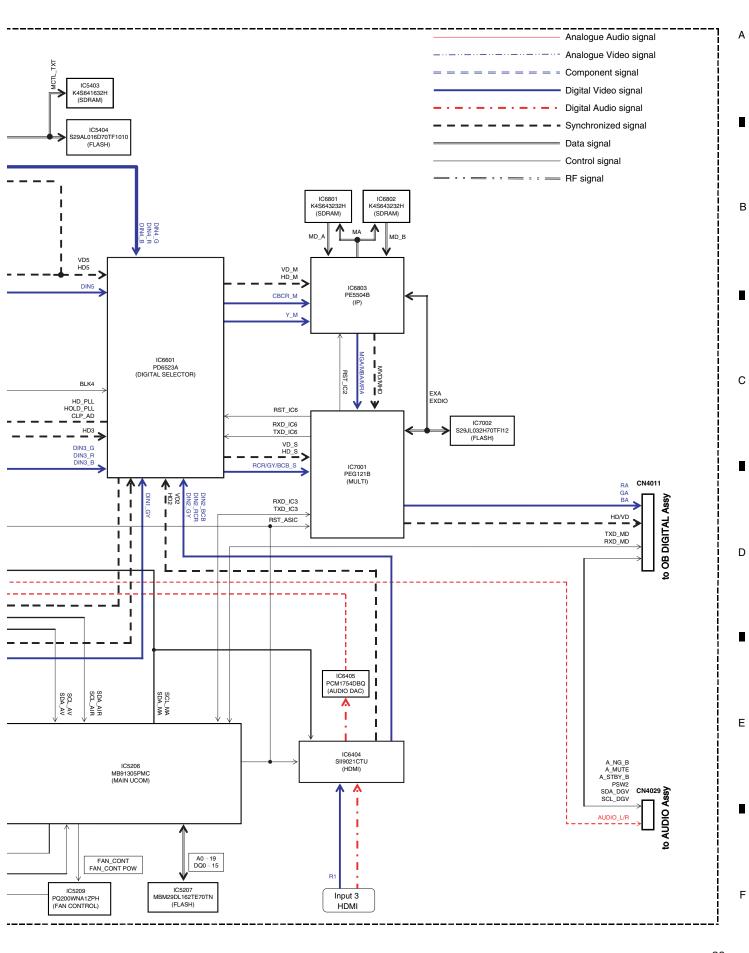


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PDP-436SXE

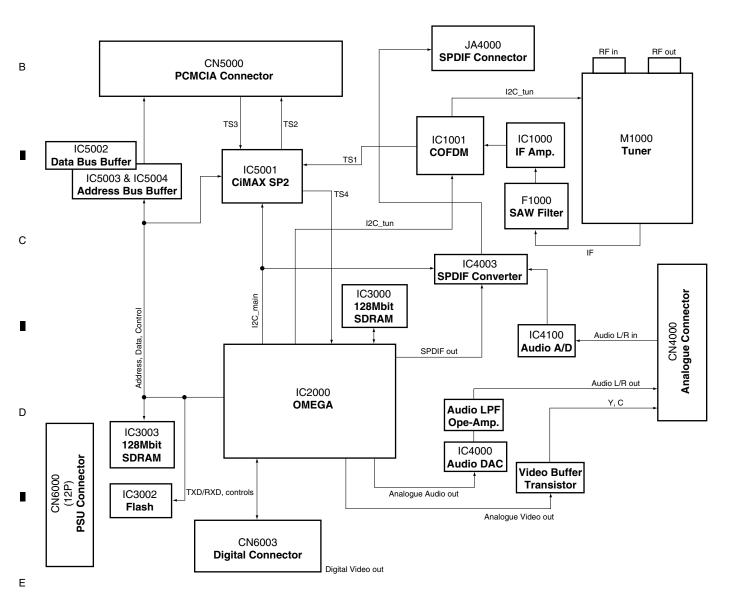
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PDP-436SXE

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#### **R06 D-TUNER ASSY**



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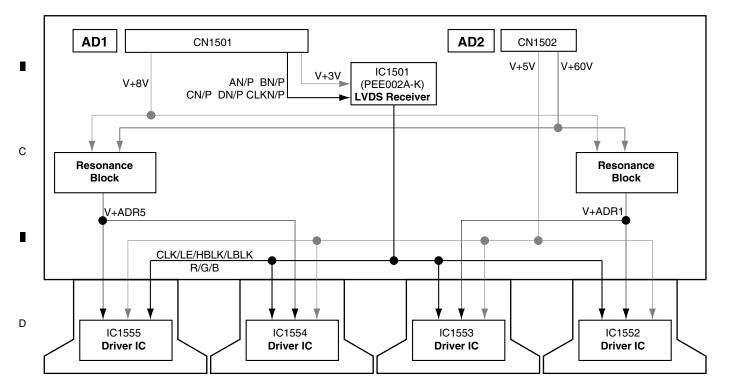
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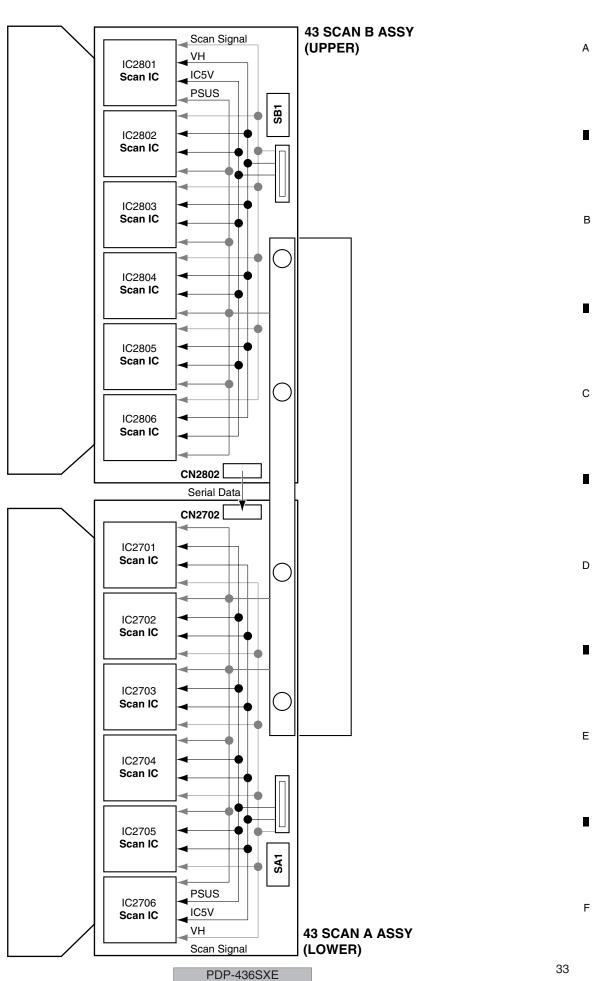
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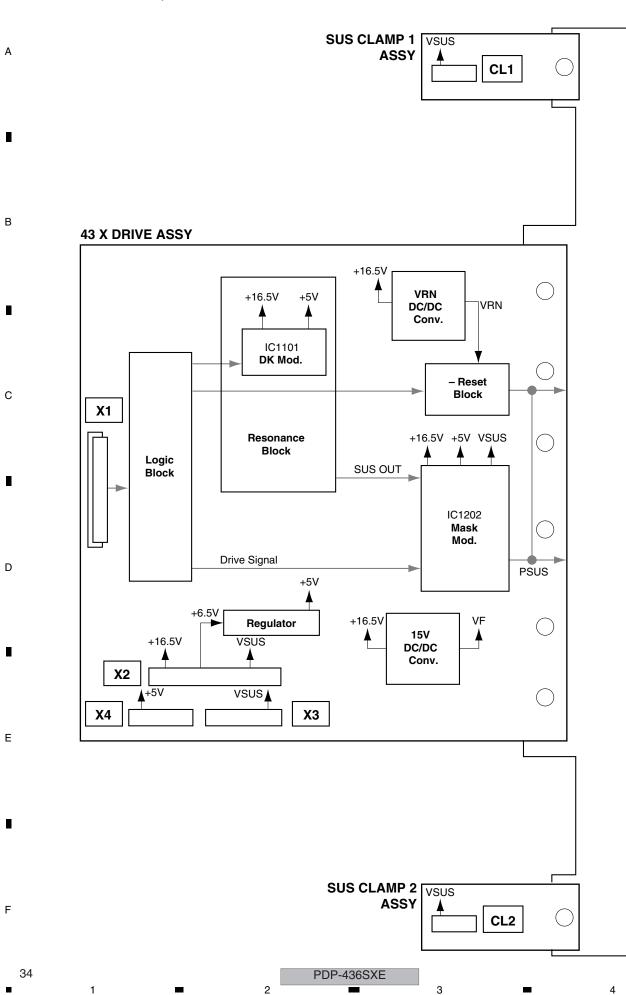
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PDP-436SXE

# 3.7 43 SCAN A and B ASSYS



# 3.8 43 X DRIVE, SUS CLAMP 1 and SUS CLAMP 2 ASSYS



PDP-436SXE

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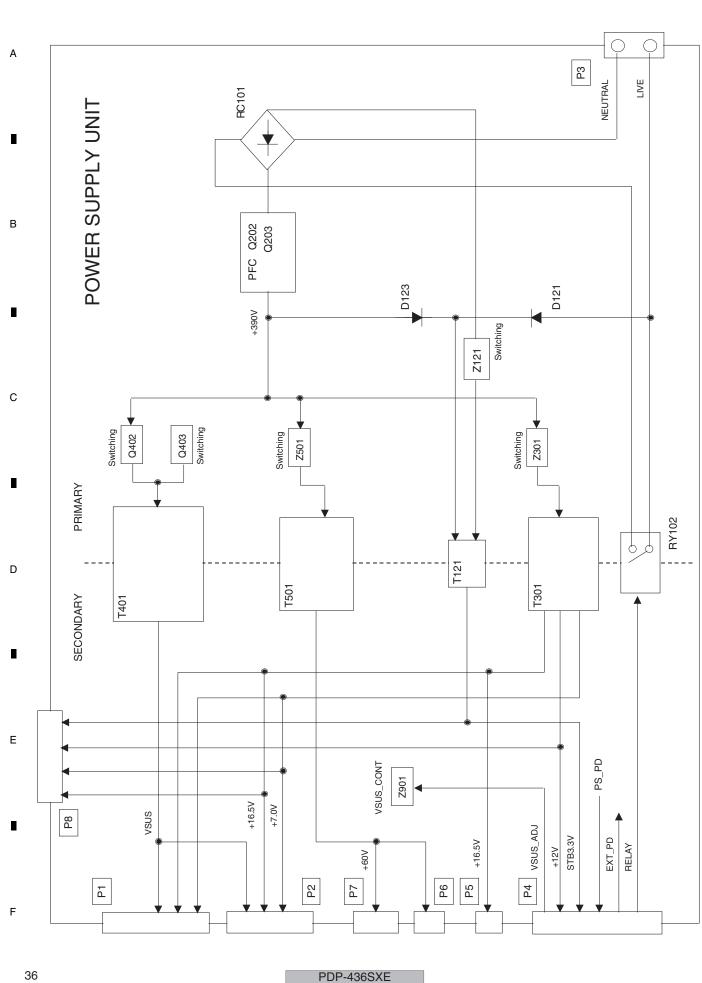
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No.         Name         Voltage (V)         CN7804(AKM1217)           No.         Name         (V)         Name         No.           1         GND         0         GND         1           2         GND         0         GND         2           3         GND         0         GND         3           4         GND         0         GND         4           5         GND         0         GND         5           6         INPUT4_R         4.5         INPUT4_R         6           7         GND         0         GND         7           8         GND         0         GND         7           8         GND         0         GND         10           11         GND         0         GND         10           11         GND         0         GND         11           12         INPUT4_L         4.5         INPUT4_V         12           13         GND         0         GND         11           14         GND         0         GND         14           15         INPUT4_S2         0         INPUT4_S2	ОВЕ	MAIN ASSY		FRONT AS	SY
1         GND         0         GND         1           2         GND         0         GND         2           3         GND         0         GND         3           4         GND         0         GND         4           5         GND         0         GND         5           6         INPUT4_R         4.5         INPUT4_R         6           7         GND         0         GND         7           8         GND         0         GND         8           9         INPUT4_L         4.5         INPUT4_L         9           10         GND         0         GND         10           11         GND         0         GND         11           12         INPUT4_L         4.5         INPUT4_V         12           13         GND         0         GND         11           14         GND         0         GND         13           14         GND         0         GND         14           15         INPUT4_S2         0         INPUT4_S2         15           16         GND         0         GND	CN	4001(AKM1217)	Voltage	CN7804(AKM12	17)
2 GND 0 GND 2 3 GND 0 GND 3 4 GND 0 GND 3 4 GND 0 GND 4 5 GND 0 GND 5 6 INPUT4_R 4.5 INPUT4_R 6 7 GND 0 GND 8 9 INPUT4_L 4.5 INPUT4_L 9 10 GND 0 GND 10 11 GND 0 GND 10 11 GND 0 GND 11 12 INPUT4_V 2.5 INPUT4_V 12 13 GND 0 GND 14 15 INPUT4_S2 0 INPUT4_S2 15 16 GND 0 GND 14 15 INPUT4_S2 0 INPUT4_S2 15 16 GND 0 GND 16 17 INPUT4_SPLUG 5 INPUT4_SPLUG 17 18 GND 0 GND 18 19 GND 0 GND 19 20 INPUT4_C 0 INPUT4_C 20 21 GND 0 GND 19 22 GND 0 GND 21 23 INPUT4_Y 2.5 INPUT4_Y 23 24 GND 0 GND 21 25 GND 0 GND 21 26 GND 0 GND 22 27 GND 0 GND 24 28 GND 0 GND 26 27 GND 0 GND 26 28 GND 0 GND 26 29 GND 0 GND 26 30 GND 0 GND 27 30 GND 0 GND 27 31 GND 0 GND 28 32 GND 0 GND 28 33 GND 0 GND 30 31 GND 0 GND 30 31 GND 0 GND 31 32 MODE 0 GND 31 32 MODE 0 GND 32 33 GND 0 GND 33 34 GND 0 GND 35 36 GND 0 GND 36 37 KEY_AD2 3.4 KEY_AD2 37 38 KEY_AD2 3.4 KEY_AD2 37 38 KEY_AD2 3.4 KEY_AD2 37	No.	Name	(V)	Name	No.
3         GND         0         GND         3           4         GND         0         GND         4           5         GND         0         GND         5           6         INPUT4_R         4.5         INPUT4_R         6           7         GND         0         GND         8           9         INPUT4_L         4.5         INPUT4_L         9           10         GND         0         GND         10           11         GND         0         GND         10           11         GND         0         GND         11           12         INPUT4_L         2.5         INPUT4_V         12           13         GND         0         GND         13           14         GND         0         GND         14           15         INPUT4_S         2         0         INPUT4_V         12           16         GND         0         GND         14           15         INPUT4_SPLUG         5         INPUT4_SPLUG         17           18         GND         0         GND         19           20         INPUT4_SPLUG	1	GND	0	GND	1
4         GND         0         GND         4           5         GND         0         GND         5           6         INPUT4_R         4.5         INPUT4_R         6           7         GND         0         GND         7           8         GND         0         GND         8           9         INPUT4_L         4.5         INPUT4_L         9           10         GND         0         GND         10           11         GND         0         GND         11           12         INPUT4_V         2.5         INPUT4_V         12           13         GND         0         GND         13           14         GND         0         GND         13           15         INPUT4_S2         0         INPUT4_S2         15           16         GND         0         GND         16           17         INPUT4_SPLUG         5         INPUT4_SPLUG         17           18         GND         0         GND         19           20         INPUT4_SPLUG         5         INPUT4_SPLUG         17           18         GND	2	GND	0	GND	2
5         GND         0         GND         5           6         INPUT4_R         4.5         INPUT4_R         6           7         GND         0         GND         7           8         GND         0         GND         7           9         INPUT4_L         4.5         INPUT4_L         9           10         GND         0         GND         10           11         GND         0         GND         11           12         INPUT4_V         2.5         INPUT4_V         12           13         GND         0         GND         13           14         GND         0         GND         14           15         INPUT4_S2         0         INPUT4_S2         15           16         GND         0         GND         16           17         INPUT4_SPLUG         5         INPUT4_SPLUG         17           18         GND         0         GND         18           19         GND         0         GND         18           19         GND         0         GND         18           19         GND         0	3	GND	0	GND	3
6         INPUT4_R         4.5         INPUT4_R         6           7         GND         0         GND         7           8         GND         0         GND         7           8         GND         0         GND         7           9         INPUT4_L         4.5         INPUT4_L         9           10         GND         0         GND         10           11         GND         0         GND         11           12         INPUT4_V         2.5         INPUT4_V         12           13         GND         0         GND         13           14         GND         0         GND         13           15         INPUT4_S2         0         INPUT4_S2         15           16         GND         0         GND         16           17         INPUT4_SPLUG         5         INPUT4_SPLUG         17           18         GND         0         GND         18           19         GND         0         GND         18           19         GND         0         GND         18           19         GND         0	4	GND	0	GND	4
7 GND 0 GND 7 8 GND 0 GND 8 9 INPUT4_L 4.5 INPUT4_L 9 10 GND 0 GND 10 111 GND 0 GND 11 12 INPUT4_V 2.5 INPUT4_V 12 13 GND 0 GND 13 14 GND 0 GND 14 15 INPUT4_S2 0 INPUT4_S2 15 16 GND 0 GND 16 17 INPUT4_SPLUG 5 INPUT4_SPLUG 17 18 GND 0 GND 18 19 GND 0 GND 19 20 INPUT4_C 0 INPUT4_C 20 21 GND 0 GND 19 22 GND 0 GND 21 22 GND 0 GND 21 22 GND 0 GND 21 24 GND 0 GND 21 25 GND 0 GND 21 26 GND 0 GND 22 27 GND 0 GND 24 28 GND 0 GND 25 26 GND 0 GND 26 27 GND 0 GND 26 27 GND 0 GND 27 28 GND 0 GND 26 29 GND 0 GND 27 30 GND 0 GND 27 30 GND 0 GND 28 31 GND 0 GND 29 30 GND 0 GND 29 31 GND 0 GND 29 30 GND 0 GND 30 31 GND 0 GND 30 31 GND 0 GND 30 31 GND 0 GND 31 32 MODE 0 GND 32 33 GND 0 GND 33 34 GND 0 GND 33 35 GND 0 GND 34 35 GND 0 GND 35 36 GND 0 GND 36 37 KEY_AD2 3.4 KEY_AD2 37 38 KEY_AD2 3.4 KEY_AD2 37	5	GND	0	GND	5
8         GND         0         GND         8           9         INPUT4_L         4.5         INPUT4_L         9           10         GND         0         GND         10           11         GND         0         GND         11           12         INPUT4_V         2.5         INPUT4_V         12           13         GND         0         GND         13           14         GND         0         GND         14           15         INPUT4_S2         0         INPUT4_S2         15           16         GND         0         GND         16           17         INPUT4_SPLUG         5         INPUT4_SPLUG         17           18         GND         0         GND         18           19         GND         0         GND         19           20         INPUT4_SPLUG         5         INPUT4_SPLUG         17           18         GND         0         GND         19           20         INPUT4_SPLUG         10         GND         19           20         INPUT4_SPLUG         2         10         GND         21	6	INPUT4_R	4.5	INPUT4_R	6
9         INPUT4_L         4.5         INPUT4_L         9           10         GND         0         GND         10           11         GND         0         GND         11           12         INPUT4_V         2.5         INPUT4_V         12           13         GND         0         GND         13           14         GND         0         GND         14           15         INPUT4_S2         0         INPUT4_S2         15           16         GND         0         GND         16           17         INPUT4_SPLUG         5         INPUT4_SPLUG         17           18         GND         0         GND         19           19         GND         0         GND         19           20         INPUT4_SPLUG         5         INPUT4_SPLUG         17           18         GND         0         GND         19           20         INPUT4_SPLUG         5         INPUT4_SPLUG         17           18         GND         0         GND         19           20         INPUT4_C         0         INPUT4_C         20           21 <td>7</td> <td>GND</td> <td>0</td> <td>GND</td> <td>7</td>	7	GND	0	GND	7
10	8	GND	0	GND	8
11         GND         0         GND         11           12         INPUT4_V         2.5         INPUT4_V         12           13         GND         0         GND         13           14         GND         0         GND         14           15         INPUT4_S2         0         INPUT4_S2         15           16         GND         0         GND         16           17         INPUT4_SPLUG         5         INPUT4_SPLUG         17           18         GND         0         GND         18           19         GND         0         GND         18           19         GND         0         GND         18           19         GND         0         GND         19           20         INPUT4_SPLUG         5         INPUT4_SPLUG         17           18         GND         0         GND         18           19         GND         0         GND         18           19         GND         0         GND         19           20         INPUT4_SPLUG         5         INPUT4_SPLUG         17           21         GND </td <td>9</td> <td>INPUT4_L</td> <td>4.5</td> <td>INPUT4_L</td> <td>9</td>	9	INPUT4_L	4.5	INPUT4_L	9
12         INPUT4_V         2.5         INPUT4_V         12           13         GND         0         GND         13           14         GND         0         GND         14           15         INPUT4_S2         0         INPUT4_S2         15           16         GND         0         GND         16           17         INPUT4_SPLUG         5         INPUT4_SPLUG         17           18         GND         0         GND         18           19         GND         0         GND         19           20         INPUT4_SPLUG         10         GND         19           20         INPUT4_SPLUG         10         GND         18           19         GND         0         GND         19           20         INPUT4_SPLUG         10         GND         19           20         INPUT4_SPLUG         10         GND         19           20         INPUT4_SPLUG         10         GND         19           20         INPUT4_C         0         INPUT4_C         20           21         GND         0         GND         21           2	10	GND	0	GND	10
13         GND         0         GND         13           14         GND         0         GND         14           15         INPUT4_S2         0         INPUT4_S2         15           16         GND         0         GND         16           17         INPUT4_SPLUG         5         INPUT4_SPLUG         17           18         GND         0         GND         18           19         GND         0         GND         19           20         INPUT4_SPLUG         0         INPUT4_SPLUG         17           18         GND         0         GND         19           20         INPUT4_SPLUG         17         18         19           20         INPUT4_SPLUG         17         19         20         19         19         20         19         20         19         20         19         20         19	11	GND	0	GND	11
14         GND         0         GND         14           15         INPUT4_S2         0         INPUT4_S2         15           16         GND         0         GND         16           17         INPUT4_SPLUG         5         INPUT4_SPLUG         17           18         GND         0         GND         19           19         GND         0         GND         19           20         INPUT4_C         0         INPUT4_C         20           21         GND         0         GND         21           22         GND         0         GND         21           23         INPUT4_Y         2.5         INPUT4_Y         23           24         GND         0         GND         24           25         GND         0         GND         25           26         GND         0         GND         26           27         GND         0         GND         27           28         GND         0         GND         28           29         GND         0         GND         30           30         GND         0	12	INPUT4_V	2.5	INPUT4_V	12
15         INPUT4_S2         0         INPUT4_S2         15           16         GND         0         GND         16           17         INPUT4_SPLUG         5         INPUT4_SPLUG         17           18         GND         0         GND         19           19         GND         0         GND         19           20         INPUT4_C         0         INPUT4_C         20           21         GND         0         GND         21           22         GND         0         GND         22           23         INPUT4_Y         2.5         INPUT4_Y         23           24         GND         0         GND         25           25         GND         0         GND         25           26         GND         0         GND         26           27         GND         0         GND         27           28         GND         0         GND         28           29         GND         0         GND         28           29         GND         0         GND         30           31         GND         0	13	GND	0	GND	13
16         GND         0         GND         16           17         INPUT4_SPLUG         5         INPUT4_SPLUG         17           18         GND         0         GND         18           19         GND         0         GND         19           20         INPUT4_C         0         INPUT4_C         20           21         GND         0         GND         21           22         GND         0         GND         22           23         INPUT4_Y         2.5         INPUT4_Y         23           24         GND         0         GND         24           25         GND         0         GND         25           26         GND         0         GND         25           26         GND         0         GND         27           28         GND         0         GND         27           28         GND         0         GND         28           29         GND         0         GND         30           30         GND         0         GND         30           31         GND         0         GND	14	GND	0	GND	14
17         INPUT4_SPLUG         5         INPUT4_SPLUG         17           18         GND         0         GND         18           19         GND         0         GND         19           20         INPUT4_C         0         INPUT4_C         20           21         GND         0         GND         22           22         GND         0         GND         22           23         INPUT4_Y         2.5         INPUT4_Y         2.3           24         GND         0         GND         24           25         GND         0         GND         25           26         GND         0         GND         25           26         GND         0         GND         26           27         GND         0         GND         27           28         GND         0         GND         29           30         GND         0         GND         29           30         GND         0         GND         30           31         GND         0         GND         30           32         MODE         0         G	15	INPUT4_S2	0	INPUT4_S2	15
18         GND         0         GND         18           19         GND         0         GND         19           20         INPUT4_C         0         INPUT4_C         20           21         GND         0         GND         21           22         GND         0         GND         22           23         INPUT4_Y         2.5         INPUT4_Y         23           24         GND         0         GND         24           25         GND         0         GND         25           26         GND         0         GND         26           27         GND         0         GND         27           28         GND         0         GND         27           29         GND         0         GND         29           30         GND         0         GND         30           31         GND         0         GND         30           31         GND         0         GND         31           32         MODE         0         MODE         32           33         GND         0         GND <t< td=""><td>16</td><td>GND</td><td>0</td><td>GND</td><td>16</td></t<>	16	GND	0	GND	16
19         GND         0         GND         19           20         INPUT4_C         0         INPUT4_C         20           21         GND         0         GND         21           22         GND         0         GND         22           23         INPUT4_Y         2.5         INPUT4_Y         23           24         GND         0         GND         24           25         GND         0         GND         25           26         GND         0         GND         26           27         GND         0         GND         27           28         GND         0         GND         27           29         GND         0         GND         29           30         GND         0         GND         29           30         GND         0         GND         30           31         GND         0         GND         31           32         MODE         0         GND         31           32         MODE         0         GND         33           34         GND         0         GND <t< td=""><td>17</td><td>INPUT4_SPLUG</td><td>5</td><td>INPUT4_SPLUG</td><td>17</td></t<>	17	INPUT4_SPLUG	5	INPUT4_SPLUG	17
20         INPUT4_C         0         INPUT4_C         20           21         GND         0         GND         21           22         GND         0         GND         22           23         INPUT4_Y         2.5         INPUT4_Y         23           24         GND         0         GND         24           25         GND         0         GND         25           26         GND         0         GND         26           27         GND         0         GND         27           28         GND         0         GND         28           29         GND         0         GND         28           29         GND         0         GND         30           30         GND         0         GND         30           31         GND         0         GND         30           31         GND         0         GND         31           32         MODE         0         GND         32           33         GND         0         GND         33           34         GND         0         GND <td< td=""><td>18</td><td>GND</td><td>0</td><td>GND</td><td>18</td></td<>	18	GND	0	GND	18
21         GND         0         GND         21           22         GND         0         GND         22           23         INPUT4_Y         2.5         INPUT4_Y         23           24         GND         0         GND         24           25         GND         0         GND         25           26         GND         0         GND         26           27         GND         0         GND         27           28         GND         0         GND         28           29         GND         0         GND         29           30         GND         0         GND         30           31         GND         0         GND         30           31         GND         0         GND         31           32         MODE         0         MODE         32           33         GND         0         GND         33           34         GND         0         GND         34           35         GND         0         GND         35           36         GND         0         GND         36	19	GND	0	GND	19
22         GND         0         GND         22           23         INPUT4_Y         2.5         INPUT4_Y         23           24         GND         0         GND         24           25         GND         0         GND         25           26         GND         0         GND         26           27         GND         0         GND         27           28         GND         0         GND         28           29         GND         0         GND         29           30         GND         0         GND         30           31         GND         0         GND         30           32         MODE         0         MODE         32           33         GND         0         GND         33           34         GND         0         GND         33           34         GND         0         GND         35           36         GND         0         GND         35           36         GND         0         GND         36           37         KEY_AD2         3.4         KEY_AD2 <t< td=""><td>20</td><td>INPUT4_C</td><td>0</td><td>INPUT4_C</td><td>20</td></t<>	20	INPUT4_C	0	INPUT4_C	20
23         INPUT4_Y         2.5         INPUT4_Y         23           24         GND         0         GND         24           25         GND         0         GND         25           26         GND         0         GND         26           27         GND         0         GND         27           28         GND         0         GND         28           29         GND         0         GND         29           30         GND         0         GND         30           31         GND         0         GND         31           32         MODE         0         MODE         32           33         GND         0         GND         33           34         GND         0         GND         33           34         GND         0         GND         35           36         GND         0         GND         35           36         GND         0         GND         35           37         KEY_AD2         3.4         KEY_AD2         37           38         KEY_AD1         3.4         KEY_AD1	21	GND	0	GND	21
24         GND         0         GND         24           25         GND         0         GND         25           26         GND         0         GND         26           27         GND         0         GND         27           28         GND         0         GND         29           30         GND         0         GND         29           30         GND         0         GND         30           31         GND         0         GND         31           32         MODE         0         MODE         32           33         GND         0         GND         33           34         GND         0         GND         33           35         GND         0         GND         35           36         GND         0         GND         36           37         KEY_AD2         3.4         KEY_AD2         37           38         KEY_AD1         3.4         KEY_AD1         38	22	GND	0	GND	22
25         GND         0         GND         25           26         GND         0         GND         26           27         GND         0         GND         27           28         GND         0         GND         28           29         GND         0         GND         29           30         GND         0         GND         30           31         GND         0         GND         31           32         MODE         0         MODE         32           33         GND         0         GND         33           34         GND         0         GND         34           35         GND         0         GND         35           36         GND         0         GND         35           37         KEY_AD2         3.4         KEY_AD2         37           38         KEY_AD1         3.4         KEY_AD1         38	23	INPUT4_Y	2.5	INPUT4_Y	23
26         GND         0         GND         26           27         GND         0         GND         27           28         GND         0         GND         28           29         GND         0         GND         29           30         GND         0         GND         30           31         GND         0         GND         31           32         MODE         0         MODE         32           33         GND         0         GND         33           34         GND         0         GND         34           35         GND         0         GND         35           36         GND         0         GND         36           37         KEY_AD2         3.4         KEY_AD2         37           38         KEY_AD1         3.4         KEY_AD1         38	24	GND	0	GND	24
27         GND         0         GND         27           28         GND         0         GND         28           29         GND         0         GND         29           30         GND         0         GND         30           31         GND         0         GND         31           32         MODE         0         MODE         32           33         GND         0         GND         33           34         GND         0         GND         34           35         GND         0         GND         35           36         GND         0         GND         36           37         KEY_AD2         3.4         KEY_AD2         37           38         KEY_AD1         3.4         KEY_AD1         38	25	GND	0	GND	25
28         GND         0         GND         28           29         GND         0         GND         29           30         GND         0         GND         30           31         GND         0         GND         31           32         MODE         0         MODE         32           33         GND         0         GND         33           34         GND         0         GND         34           35         GND         0         GND         35           36         GND         0         GND         36           37         KEY_AD2         3.4         KEY_AD2         37           38         KEY_AD1         3.4         KEY_AD1         38	26	GND	0	GND	26
29         GND         0         GND         29           30         GND         0         GND         30           31         GND         0         GND         31           32         MODE         0         MODE         32           33         GND         0         GND         33           34         GND         0         GND         34           35         GND         0         GND         35           36         GND         0         GND         36           37         KEY_AD2         3.4         KEY_AD2         37           38         KEY_AD1         3.4         KEY_AD1         38	27	GND	0	GND	27
30         GND         0         GND         30           31         GND         0         GND         31           32         MODE         0         MODE         32           33         GND         0         GND         33           34         GND         0         GND         34           35         GND         0         GND         35           36         GND         0         GND         36           37         KEY_AD2         3.4         KEY_AD2         37           38         KEY_AD1         3.4         KEY_AD1         38	28	GND	0	GND	28
31         GND         0         GND         31           32         MODE         0         MODE         32           33         GND         0         GND         33           34         GND         0         GND         34           35         GND         0         GND         35           36         GND         0         GND         36           37         KEY_AD2         3.4         KEY_AD2         37           38         KEY_AD1         3.4         KEY_AD1         38	29	GND	0	GND	29
32         MODE         0         MODE         32           33         GND         0         GND         33           34         GND         0         GND         34           35         GND         0         GND         35           36         GND         0         GND         36           37         KEY_AD2         3.4         KEY_AD2         37           38         KEY_AD1         3.4         KEY_AD1         38	30	GND	0	GND	30
33         GND         0         GND         33           34         GND         0         GND         34           35         GND         0         GND         35           36         GND         0         GND         36           37         KEY_AD2         3.4         KEY_AD2         37           38         KEY_AD1         3.4         KEY_AD1         38	31	GND	0	GND	31
34         GND         0         GND         34           35         GND         0         GND         35           36         GND         0         GND         36           37         KEY_AD2         3.4         KEY_AD2         37           38         KEY_AD1         3.4         KEY_AD1         38	32	MODE	0	MODE	32
35         GND         0         GND         35           36         GND         0         GND         36           37         KEY_AD2         3.4         KEY_AD2         37           38         KEY_AD1         3.4         KEY_AD1         38	33	GND	0	GND	33
36         GND         0         GND         36           37         KEY_AD2         3.4         KEY_AD2         37           38         KEY_AD1         3.4         KEY_AD1         38	34	GND	0	GND	34
37         KEY_AD2         3.4         KEY_AD2         37           38         KEY_AD1         3.4         KEY_AD1         38	35	GND	0	GND	35
38 KEY_AD1 3.4 KEY_AD1 38	36	GND	0	GND	36
38 KEY_AD1 3.4 KEY_AD1 38	37	KEY_AD2	3.4	KEY_AD2	37
39 V+3_3V_STB	38				38
	39	V+3_3V_STB	3.4	V+3_3V_STB	39
40 GND 0 GND 40	40	GND	0	GND	40

OBE MAIN ASSY	IR ASSY

CN4028(AKM1274-) Voltage CN8401(KM200N/		A3L)		
No.	Name	(V)	Name	No.
1	V+3_3V_STB	3.3	V+3_3V_STB	1
2	GND	0	GND	2
3	REM_B	0	REM_B	3

### [436SXE MODEL only]

No. Name		MAIN ASSY		06 D-TUNER ASS	Y(E)
1         GND         0         GND         1           2         TXD_DT         3.3         TXD_DT         2           3         RXD_DT         3.3         RXD_DT         3           4         GND         0         GND         4           5         DT_FNC         3.3         DT_FNC         5           6         GND         0         GND         6           7         CLK_DT         0 to 3.3         CLK_DT         7           8         GND         0         GND         8           9         Y7_DT         0 to 3.3         Y7_DT         9           10         Y6_DT         0 to 3.3         Y7_DT         9           10         Y6_DT         0 to 3.3         Y5_DT         10           11         GND         0         GND         11           12         Y5_DT         0 to 3.3         Y5_DT         12           13         Y4_DT         0 to 3.3         Y4_DT         13           14         GND         0         GND         14           15         Y3_DT         0 to 3.3         Y3_DT         15           16 <td< th=""><th>CN</th><th>4004(AKM1201-)</th><th>Voltage</th><th>CN6003(AKM12</th><th>36-)</th></td<>	CN	4004(AKM1201-)	Voltage	CN6003(AKM12	36-)
2 TXD_DT 3.3 TXD_DT 2 3 RXD_DT 3.3 RXD_DT 3 4 GND 0 GND 4 5 DT_FNC 3.3 DT_FNC 5 6 GND 0 GND 6 7 CLK_DT 0 to 3.3 CLK_DT 7 8 GND 0 GND 8 9 Y7_DT 0 to 3.3 Y7_DT 9 10 Y6_DT 0 to 3.3 Y6_DT 10 11 GND 0 GND 11 12 Y5_DT 0 to 3.3 Y5_DT 12 13 Y4_DT 0 to 3.3 Y4_DT 13 14 GND 0 GND 14 15 Y3_DT 0 to 3.3 Y2_DT 15 16 Y2_DT 0 to 3.3 Y2_DT 16 17 GND 0 GND 17 18 Y1_DT 0 to 3.3 Y1_DT 18 19 Y0_DT 0 to 3.3 CBT_DT 19 20 GND 0 GND 20 21 CB7_DT 0 to 3.3 CB6_DT 22 23 GND 0 GND 24 4 GND 0 GND 23	No.	Name	(V)	Name	No.
3 RXD_DT 3.3 RXD_DT 3 4 GND 0 GND 4 5 DT_FNC 3.3 DT_FNC 5 6 GND 0 GND 6 7 CLK_DT 0 to 3.3 CLK_DT 7 8 GND 0 GND 8 9 Y7_DT 0 to 3.3 Y7_DT 9 10 Y6_DT 0 to 3.3 Y5_DT 12 11 GND 0 GND 11 12 Y5_DT 0 to 3.3 Y4_DT 13 14 GND 0 GND 14 15 Y3_DT 0 to 3.3 Y3_DT 15 16 Y2_DT 0 to 3.3 Y2_DT 16 17 GND 0 GND 17 18 Y1_DT 0 to 3.3 Y2_DT 16 17 GND 0 GND 17 18 Y1_DT 0 to 3.3 Y2_DT 16 17 GND 0 GND 17 18 Y1_DT 0 to 3.3 Y1_DT 18 19 Y0_DT 0 to 3.3 Y0_DT 19 20 GND 0 GND 20 21 CB7_DT 0 to 3.3 CB6_DT 22 22 CB6_DT 0 to 3.3 CB0_D 23 24 GND 0 GND 23	1	GND	0	GND	1
4 GND 0 GND 4 5 DT_FNC 3.3 DT_FNC 5 6 GND 0 GND 6 7 CLK_DT 0 to 3.3 CLK_DT 7 8 GND 0 GND 8 9 Y7_DT 0 to 3.3 Y7_DT 9 10 Y6_DT 0 to 3.3 Y6_DT 10 11 GND 0 GND 11 12 Y5_DT 0 to 3.3 Y5_DT 12 13 Y4_DT 0 to 3.3 Y4_DT 13 14 GND 0 GND 14 15 Y3_DT 0 to 3.3 Y3_DT 15 16 Y2_DT 0 to 3.3 Y2_DT 16 17 GND 0 GND 17 18 Y1_DT 0 to 3.3 Y2_DT 16 17 GND 0 GND 17 18 Y1_DT 0 to 3.3 Y1_DT 18 19 Y0_DT 0 to 3.3 Y1_DT 18 19 Y0_DT 0 to 3.3 Y0_DT 19 20 GND 0 GND 20 21 CB7_DT 0 to 3.3 CB7_DT 21 22 CB6_DT 0 to 3.3 CB6_DT 22 23 GND 0 GND 23 24 GND 0 GND 23	2	TXD_DT	3.3	TXD_DT	2
5         DT_FNC         3.3         DT_FNC         5           6         GND         0         GND         6           7         CLK_DT         0 to 3.3         CLK_DT         7           8         GND         0         GND         8           9         Y7_DT         0 to 3.3         Y7_DT         9           10         Y6_DT         0 to 3.3         Y6_DT         10           11         GND         0         GND         11           12         Y5_DT         0 to 3.3         Y5_DT         12           13         Y4_DT         0 to 3.3         Y4_DT         13           14         GND         0         GND         14           15         Y3_DT         0 to 3.3         Y3_DT         15           16         Y2_DT         0 to 3.3         Y2_DT         16           17         GND         0         GND         17           18         Y1_DT         0 to 3.3         Y1_DT         18           19         Y0_DT         0 to 3.3         Y0_DT         19           20         GND         0         GND         20           21 </td <td>3</td> <td>RXD_DT</td> <td>3.3</td> <td>RXD_DT</td> <td>3</td>	3	RXD_DT	3.3	RXD_DT	3
6 GND 0 GND 6 7 CLK_DT 0 to 3.3 CLK_DT 7 8 GND 0 GND 8 9 Y7_DT 0 to 3.3 Y7_DT 9 10 Y6_DT 0 to 3.3 Y6_DT 10 11 GND 0 GND 11 12 Y5_DT 0 to 3.3 Y5_DT 12 13 Y4_DT 0 to 3.3 Y4_DT 13 14 GND 0 GND 14 15 Y3_DT 0 to 3.3 Y3_DT 15 16 Y2_DT 0 to 3.3 Y3_DT 16 17 GND 0 GND 17 18 Y1_DT 0 to 3.3 Y1_DT 16 17 GND 0 GND 17 18 Y1_DT 0 to 3.3 Y1_DT 18 19 Y0_DT 0 to 3.3 Y1_DT 18 19 Y0_DT 0 to 3.3 Y0_DT 19 20 GND 0 GND 20 21 CB7_DT 0 to 3.3 CB6_DT 22 22 CB6_DT 0 to 3.3 CB6_DT 22 23 GND 0 GND 23 24 GND 0 GND 24	4	GND	0	GND	4
7 CLK_DT 0 to 3.3 CLK_DT 7 8 GND 0 GND 8 9 Y7_DT 0 to 3.3 Y7_DT 9 10 Y6_DT 0 to 3.3 Y6_DT 10 11 GND 0 GND 11 12 Y5_DT 0 to 3.3 Y5_DT 12 13 Y4_DT 0 to 3.3 Y4_DT 13 14 GND 0 GND 14 15 Y3_DT 0 to 3.3 Y3_DT 15 16 Y2_DT 0 to 3.3 Y3_DT 15 16 Y2_DT 0 to 3.3 Y2_DT 16 17 GND 0 GND 17 18 Y1_DT 0 to 3.3 Y1_DT 18 19 Y0_DT 0 to 3.3 Y1_DT 18 19 Y0_DT 0 to 3.3 Y0_DT 19 20 GND 0 GND 20 21 CB7_DT 0 to 3.3 CB7_DT 21 22 CB6_DT 0 to 3.3 CB6_DT 22 23 GND 0 GND 23 24 GND 0 GND 24	5	DT_FNC	3.3	DT_FNC	5
8         GND         0         GND         8           9         Y7_DT         0 to 3.3         Y7_DT         9           10         Y6_DT         0 to 3.3         Y6_DT         10           11         GND         0         GND         11           12         Y5_DT         0 to 3.3         Y5_DT         12           13         Y4_DT         0 to 3.3         Y4_DT         13           14         GND         0         GND         14           15         Y3_DT         0 to 3.3         Y3_DT         15           16         Y2_DT         0 to 3.3         Y2_DT         16           17         GND         0         GND         17           18         Y1_DT         0 to 3.3         Y1_DT         18           19         Y0_DT         0 to 3.3         Y0_DT         19           20         GND         0         GND         20           21         CB7_DT         0 to 3.3         CB7_DT         21           22         CB6_DT         0 to 3.3         CB6_DT         22           23         GND         0         GND         23	6	GND	0	GND	6
9         Y7_DT         0 to 3.3         Y7_DT         9           10         Y6_DT         0 to 3.3         Y6_DT         10           11         GND         0         GND         11           12         Y5_DT         0 to 3.3         Y5_DT         12           13         Y4_DT         0 to 3.3         Y4_DT         13           14         GND         0         GND         14           15         Y3_DT         0 to 3.3         Y3_DT         15           16         Y2_DT         0 to 3.3         Y2_DT         16           17         GND         0         GND         17           18         Y1_DT         0 to 3.3         Y1_DT         18           19         Y0_DT         0 to 3.3         Y0_DT         19           20         GND         0         GND         20           21         CB7_DT         0 to 3.3         CB7_DT         21           22         CB6_DT         0 to 3.3         CB6_DT         22           23         GND         0         GND         23           24         GND         0         GND         24	7	CLK_DT	0 to 3.3	CLK_DT	7
10 Y6_DT 0 to 3.3 Y6_DT 10 11 GND 0 GND 11 12 Y5_DT 0 to 3.3 Y5_DT 12 13 Y4_DT 0 to 3.3 Y4_DT 13 14 GND 0 GND 14 15 Y3_DT 0 to 3.3 Y3_DT 15 16 Y2_DT 0 to 3.3 Y3_DT 15 16 Y2_DT 0 to 3.3 Y2_DT 16 17 GND 0 GND 17 18 Y1_DT 0 to 3.3 Y1_DT 18 19 Y0_DT 0 to 3.3 Y0_DT 19 20 GND 0 GND 20 21 CB7_DT 0 to 3.3 CB7_DT 21 22 CB6_DT 0 to 3.3 CB6_DT 22 23 GND 0 GND 23 24 GND 0 GND 24	8	GND	0	GND	8
11         GND         0         GND         11           12         Y5_DT         0 to 3.3         Y5_DT         12           13         Y4_DT         0 to 3.3         Y4_DT         13           14         GND         0         GND         14           15         Y3_DT         0 to 3.3         Y3_DT         15           16         Y2_DT         0 to 3.3         Y2_DT         16           17         GND         0         GND         17           18         Y1_DT         0 to 3.3         Y1_DT         18           19         Y0_DT         0 to 3.3         Y0_DT         19           20         GND         0         GND         20           21         CB7_DT         0 to 3.3         CB7_DT         21           22         CB6_DT         0 to 3.3         CB6_DT         22           23         GND         0         GND         23           24         GND         0         GND         24	9	Y7_DT	0 to 3.3	Y7_DT	9
12         Y5_DT         0 to 3.3         Y5_DT         12           13         Y4_DT         0 to 3.3         Y4_DT         13           14         GND         0         GND         14           15         Y3_DT         0 to 3.3         Y3_DT         15           16         Y2_DT         0 to 3.3         Y2_DT         16           17         GND         0         GND         17           18         Y1_DT         0 to 3.3         Y1_DT         18           19         Y0_DT         0 to 3.3         Y0_DT         19           20         GND         0         GND         20           21         CB7_DT         0 to 3.3         CB7_DT         21           22         CB6_DT         0 to 3.3         CB6_DT         22           23         GND         0         GND         23           24         GND         0         GND         24	10	Y6_DT	0 to 3.3	Y6_DT	10
13	11	GND	0	GND	11
14         GND         0         GND         14           15         Y3_DT         0 to 3.3         Y3_DT         15           16         Y2_DT         0 to 3.3         Y2_DT         16           17         GND         0         GND         17           18         Y1_DT         0 to 3.3         Y1_DT         18           19         Y0_DT         0 to 3.3         Y0_DT         19           20         GND         0         GND         20           21         CB7_DT         0 to 3.3         CB7_DT         21           22         CB6_DT         0 to 3.3         CB6_DT         22           23         GND         0         GND         23           24         GND         0         GND         24	12	Y5_DT	0 to 3.3	Y5_DT	12
15         Y3 DT         0 to 3.3         Y3 DT         15           16         Y2 DT         0 to 3.3         Y2 DT         16           17         GND         0         GND         17           18         Y1 DT         0 to 3.3         Y1 DT         18           19         Y0 DT         0 to 3.3         Y0 DT         19           20         GND         0         GND         20           21         CB7 DT         0 to 3.3         CB7 DT         21           22         CB6 DT         0 to 3.3         CB6 DT         22           23         GND         0         GND         23           24         GND         0         GND         24	13	Y4_DT	0 to 3.3	Y4_DT	13
16         Y2_DT         0 to 3.3         Y2_DT         16           17         GND         0         GND         17           18         Y1_DT         0 to 3.3         Y1_DT         18           19         Y0_DT         0 to 3.3         Y0_DT         19           20         GND         0         GND         20           21         CB7_DT         0 to 3.3         CB7_DT         21           22         CB6_DT         0 to 3.3         CB6_DT         22           23         GND         0         GND         23           24         GND         0         GND         24	14	GND	0	GND	14
17         GND         0         GND         17           18         Y1_DT         0 to 3.3         Y1_DT         18           19         Y0_DT         0 to 3.3         Y0_DT         19           20         GND         0         GND         20           21         CB7_DT         0 to 3.3         CB7_DT         21           22         CB6_DT         0 to 3.3         CB6_DT         22           23         GND         0         GND         23           24         GND         0         GND         24	15	Y3_DT	0 to 3.3	Y3_DT	15
18         Y1_DT         0 to 3.3         Y1_DT         18           19         Y0_DT         0 to 3.3         Y0_DT         19           20         GND         0         GND         20           21         CB7_DT         0 to 3.3         CB7_DT         21           22         CB6_DT         0 to 3.3         CB6_DT         22           23         GND         0         GND         23           24         GND         0         GND         24	16	Y2_DT	0 to 3.3	Y2_DT	16
19	17	GND	0	GND	17
20         GND         0         GND         20           21         CB7_DT         0 to 3.3         CB7_DT         21           22         CB6_DT         0 to 3.3         CB6_DT         22           23         GND         0         GND         23           24         GND         0         GND         24	18	Y1_DT	0 to 3.3	Y1_DT	18
21         CB7_DT         0 to 3.3         CB7_DT         21           22         CB6_DT         0 to 3.3         CB6_DT         22           23         GND         0         GND         23           24         GND         0         GND         24	19	Y0_DT	0 to 3.3	Y0_DT	19
22         CB6_DT         0 to 3.3         CB6_DT         22           23         GND         0         GND         23           24         GND         0         GND         24	20	GND	0	GND	20
23 GND 0 GND 23 24 GND 0 GND 24	21	CB7_DT	0 to 3.3	CB7_DT	21
24 GND 0 GND 24	22	CB6_DT	0 to 3.3	CB6_DT	22
	23	GND	0	GND	23
25 GND 0 GND 25	24	GND	0	GND	24
	25	GND	0	GND	25

# [436SXE MODEL only] OBE MAIN ASSY

-	OBE MAIN ASSY R06 D-TUNER ASSY(E)				
CN	4004(AKM1201-)	Voltage	CN6003(AKM12	236-)	
No.	Name	(V)	Name	No.	
26	GND	0	GND	26	
27	GND	0	GND	27	
28	GND	0	GND	28	
29	GND	0	GND	29	
30	GND	0	GND	30	
31	GND	0	GND	31	
32	GND	0	GND	32	
33	GND	0	GND	33	
34	GND	0	GND	34	
35	GND	0	GND	35	
36	GND	0	GND	36	
37	GND	0	GND	37	
38	GND	0	GND	38	
39	GND	0	GND	39	
40	GND	0	GND	40	
41	GND	0	GND	41	
42	GND	0	GND	42	
43	GND	0	GND	43	
44	GND	0	GND	44	
45	DE_DT	0	DE_DT	45	
46	GND	0	GND	46	
47	VD_DT	3.3	VD_DT	47	
48	GND	0	GND	48	
49	HD_DT	3.3	HD_DT	49	
50	GND	0	GND	50	

### OBE MAIN ASSY

CN4401 (AKM1217-)		Voltage	CN8501 (AKM12	17-)
No.	Name	(V)	Name	No.
1	GND	0	GND	1
2	GND	0	GND	2
3	AIR_R	3.0	AIR_R	3
4	GND	0	GND	4
5	GND	0	GND	5
6	AIR_L	3.0	AIR_L	6
7	GND	0	GND	7
8	GND	0	GND	8
9	GND	0	GND	9
10	SCL_AV	0-3.3	SCL_AV	10
11	SDA_AV	0-3.3	SDA_AV	11
12	GND	0	GND	12
13	GND	0	GND	13
14	V+5V_AIR	5.0	V+5V_AIR	14
15	V+5V_AIR	5.0	V+5V_AIR	15
16	GND	0	GND	16
17	GND	0	GND	17
18	A_TUNER_V	3.9	A_TUNER_V	18
19	GND	0	GND	19
20	V+3_3V_UCOM2	3.3	V+3_3V_UCOM2	20
21	GND	0	GND	21
22	D_CTR_OUT1	3.0	D_CTR_OUT1	22
23	GND	0	GND	23
24	MSP_RESET	5.0	MSP_RESET	24
25	GND	0	GND	25
26	V+9V_AIR	9.0	V+9V_AIR	26
27	V+9V_AIR	9.0	V+9V_AIR	27
28	GND	0	GND	28
29	V+30V	30	V+30V	29
30	V+30V	30	V+30V	30
31	GND	0	GND	31
32	GND	0	GND	32
33	SCL_AIR	0-3.3	SCL_AIR	33
34	SDA_AIR	0-3.3	SDA_AIR	34
35	GND	0	GND	35
36	IN3DET	0/5.0	IN3DET	36
37	IN2DET	0/5.0	IN2DET	37
38	IN2DET_B	0/3.3	IN2DET_B	38
39	LINK_IO	5.0	LINK_IO	39
40	GND	0	GND	40

	DBE MAIN ASSY AUDIO ASSY			
CN4	029(KM200NA13)	Voltage	CN3752(KM200N	A13)
No.	Name	(V)	Name	No.
1	A_NG_B	2.9	A_NG_B	1
2	GND_A	0	GND_A	2
3	AUDIO_L	5.1	AUDIO_L	3
4	GND_A	0	GND_A	4
5	AUDIO_R	5.1	AUDIO_R	5
6	GND_A	0	GND_A	6
7	A_STBY_B	3.3	A_STBY_B	7
8	A_MUTE	0	A_MUTE	8
9	SCL_DGV	0-3.3	SCL_DGV	9
10	SDA_DGV	0-3.3	SDA_DGV	10
11	V+3VD	3.3	V+3VD	11
12	GND	0	GND	12
13	PSW_2	5.2	PSW_2	13
ODE MAIN ACCV LED ACCV				

### **OBE MAIN ASSY**

В

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CN	4027(AKM1279)	Voltage	CN8001(KM200NA8	
No.	Name	(V)	Name	No.
1	V+5_1V_STB	5.1	V+5_1V_STB	1
2	V+3_3V_STB	3.3	V+3_3V_STB	2
3	LED_B	0	LED_B	3
4	LED_R	3.3	LED_R	4
5	LED_PICOFF	3.3	LED_PICOFF	5
6	LED_SLEEP	3.3	LED_SLEEP	6
7	GND	0	GND	7
8	AC_DET	0	AC_DET	8

### OBE MAIN ASSY

TUNER ASSY

### SR ASSY

CN4026(KM200NA9)		Voltage	CN7601(KM200N	A9)
No.	Name	(V)	Name	No.
1	GND_D	0	GND_D	1
2	DRF_SW	3.0	DRF_SW	2
3	V+3_3V_UCOM2	3.3	V+3_3V_UCOM2	3
4	TEMP_AIR	2.2	TEMP_AIR	4
5	GND	0	GND	5
6	RXD	3.3	RXD	6
7	TXD	3.3	TXD	7
8	GND	0	GND	8
9	V+3_3V_STB	3.3	V+3_3V_STB	9

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PDP-436SXE

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### [436SXE MODEL only]

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OBE MAIN ASSY		R06 D-TUNER ASSY(E)		
CN4	1005 (AKM1217-)	Voltage	CN4000 (AKM12	17-)
No.	Name	(V)	Name	No.
1	GND	0	GND	1
2	GND	0	GND	2
3	GND	0	GND	3
4	GND	0	GND	4
5	GND	0	GND	5
6	GND	0	GND	6
7	DT_SP_R	0	DT_SP_R	7
8	GND	0	GND	8
9	DT_SP_L	0	DT_SP_L	9
10	GND	0	GND	10
11	OPT_R	0	OPT_R	11
12	GND	0	GND	12
13	OPT_L	0	OPT_L	13
14	GND	0	GND	14
15	DT_MON_C	1.8	DT_MON_C	15
16	GND	0	GND	16
17	GND	0	GND	17
18	DT_MON_Y	1.8	DT_MON_Y	18
19	GND	0	GND	19
20	GND	0	GND	20
21	GND	0	GND	21
22	GND	0	GND	22
23	GND	0	GND	23
24	GND	0	GND	24
25	GND	0	GND	25
26	GND	0	GND	26
27	GND	0	GND	27
28	GND	0	GND	28
29	GND	0	GND	29
30	GND	0	GND	30
31	GND	0	GND	31
32	GND	0	GND	32

ОВЕ	OBE MAIN ASSY POWER SUPPLY UNIT				
CN4	CN4006(KM200NA16)		CN7503(KM200N	A16)	
No.	Name	(V)	Name	No.	
1	AC_DET	3.3	AC_DET	1	
2	RELAY	3.3	RELAY	2	
3	GND	0	GND	3	
4	V+3_3V_STB	3.3	V+3_3V_STB	4	
5	GND	0	GND	5	
6	V+5_1V_STB	5.1	V+5_1V_STB	6	
7	V+5_1V	5.1	V+5_1V	7	
8	V+5_1V	5.1	V+5_1V	8	
9	GND	0	GND	9	
10	V+6_8V	6.6	V+6_8V	10	
11	GND	0	GND	11	
12	V+12V	12.6	V+12V	12	
13	GND	0	GND	13	
14	V+17V	19	V+17V	14	
15	GND	0	GND	15	
16	V+35V	37	V+35V	16	

### FAN OBE MAIN ASSY

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0

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3.3

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36

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39 40

GND

GND

GND ANT\_POW\_EU POW\_DET

RST\_DT

DT\_DET

GND

GND

GND

GND

ANT\_POW\_EU

POW\_DET

RST\_DT

DT\_DET

GND

		Voltage	CN4009(AKM127	74-)
No.	Name	(V)	Name	No.
-	-	VH=9.57V	FAN_VCC	1
		VL=7.10V		
-1	-	0	FAN_NG1	2
-1	_	0	GND	3

# [436SXE Model only] R06 D-TUNER ASSY(E) POWER SUPPLY UNIT

1100	D-10NEN A001(E	-, '	OWENGONIE	01111
CN	2500(AKM1298)	Voltage	CN102(KM200NA	112)
No.	No. Name		Name	No.
1	V+35V	37	V+35V	1
2	GND	0	GND	2
3	V+17V	19	V+17V	3
4	GND	0	GND	4
5	V+12V	12.6	V+12V	5
6	GND	0	GND	6
7	V+6_5V	6.6	V+6_5V	7
8	V+5_1V_STB	5.1	V+5_1V_STB	8
9	V+5_1V	5.1	V+5_1V	9
10	V+5_1V	5.1	V+5_1V	10
11	GND	0	GND	11
12	V+3V	3.4	V+3V	12

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PDP-436SXE

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### ■ OB DIGITAL ASSY

### $CN3001(D11) \Leftrightarrow MAIN ASSY$

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Pin No.	Name	I/O	Function	Voltage(V)	TP
1	GND	-	GND	-	TP3025
2	MODEL	1	Model distinction	1.7	TP3018
3	A_NG_B	1	(Audio) Ahnormal detect	2.9	TP3012
4	A_STBY_B	0	Audio stand by-signal	3.3	TP3013
5	A_MUTE	0	Audio mute signal input	0	TP3011
6	PSW_A	0	Function stand by signal for audio	2.7	TP3019
7	MR_AC_OFF	Ι	AC state input for MR side	3.3	TP3038
8	DRF_SW	1	Control signal for large power section	3.3	TP3001
9	SDA_DGV	0	IIC control signal	0-3.3	TP3014
10	SCL_DGV	0	IIC control signal	0-3.3	TP3015
11	REQ MD	0	Communication demandto main U-COm	0-3.3	TP3016
12	RXD MD	0	URAT communication data with mai UCOM	0-3.3	TP3163
13	TXD MD	1	URAT communication data with mai UCOM	0-3.3	TP3166
14	VIS	1	Control signal from Carrera	0	TP3020
15	TEATHER	1	Control signal from pure sinema	0	TP3021
16	VD	Т	V sync	0-3.3	TP3037
17	HD	1	H sync	0-3.3	TP3036
18	DE	Т	Data enable signal	0-3.3	TP3035
19	GND	_	GND		TP3025
20	CLK		Data clock signal	0-3.3	TP3034
21	GND	_	GND	-	TP3025
22	V+3V_UCOM2	Т	Vcc +3.3V input for panel side module U-com line	3.3	TP3186
23	GND	-	GND		TP3025
24	RA IN9	1	8bit video/signal input (RED)	0-3.3	TP3025
25	RA INS	†	8bit video/signal input (RED)	0-3.3	TP3057
26	RA IN7	Ė	8bit video/signal input (RED)	0-3.3	TP3055
27	RA IN6	i	8bit video/signal input (RED)	0-3.3	TP3055
28	RA IN5	Ť	8bit video/signal input (RED)	0-3.3	TP3053
29	RA IN4	i	8bit video/signal input (RED)	0-3.3	TP3052
30	RA IN3	i	8bit video/signal input (RED)	0-3.3	TP3051
31	RA IN2	1	8bit video/signal input (RED)	0-3.3	TP3050
32	GND	_	GND	-	TP3025
33	GA IN9	1	8bit video/signal input (GREEN)	0-3.3	TP3067
34	GA IN8	1	8bit video/signal input (GREEN)	0-3.3	TP3066
35	GA IN7	Т	8bit video/signal input (GREEN)	0-3.3	TP3065
36	GA IN6	1	8bit video/signal input (GREEN)	0-3.3	TP3064
37	GA IN5	Т	8bit video/signal input (GREEN)	0-3.3	TP3063
38	GA IN4	ı	8bit video/signal input (GREEN)	0-3.3	TP3062
39	GA IN3	T	8bit video/signal input (GREEN)	0-3.3	TP3061
40	GA IN2	Τ	8bit video/signal input (GREEN)	0-3.3	TP3060
41	GND	_	GND	-	TP3025
42	BA IN9	1	8bit video/signal input (BLUE)	0-3.3	TP3077
43	BA IN8	1	8bit video/signal input (BLUE)	0-3.3	TP3076
44	BA IN7	1	8bit video/signal input (BLUE)	0-3.3	TP3075
45	BA IN6	ı	8bit video/signal input (BLUE)	0-3.3	TP3074
46	BA IN5	Ι	8bit video/signal input (BLUE)	0-3.3	TP3073
47	BA IN4	Τ	8bit video/signal input (BLUE)	0-3.3	TP3072
48	BA IN3	Ì	8bit video/signal input (BLUE)	0-3.3	TP3071
49	BA IN2	Ī	8bit video/signal input (BLUE)	0-3.3	TP3070
50	GND	-	GND	-	TP3025

### $\textbf{CN3505(D19)} \Leftrightarrow \textbf{X DRIVE ASSY}$

Pin No.	Name	I/O	Function	Voltage(V)	TP
1	PSW	0	Function standby control signal	0	TP3519
2	XSUS_PD	1	X drive PD signal	0	TP3513
3	XDD_PD	1	X drive PD signal	0	TP3514
4	XDRV_PD	1	X drive PD signal	0	TP3515
5	GND	-	GND	-	-
6	XRsv1	1	X drive control signal (reserve)	-	
7	XSUS-MSK	1	X drive control signal (reserve)	0-3.3	
8	GND	-	GND	-	-
9	XNR-D	0	X drive control signal	0-3.3	
10	GND	-	GND	-	-
11	XSUS-G	0	X drive control signal	0-3.3	
12	GND	-	GND	-	-
13	XSUS-D	0	X drive control signal	0-3.3	
14	GND	-	GND	-	-
15	XSUS-U	0	X drive control signal	0-3.3	
16	GND	-	GND	-	-
17	XSUS-B	0	X drive control signal	0-3.3	
18	GND	-	GND	-	-

### $\textbf{CN3506(D20)} \Leftrightarrow \textbf{Y DRIVE ASSY}$

Pin No.	Name	I/O	Function	Voltage(V)	TP
1 GND -			GND	-	-
2	SCN5V_PD	1	Y drive PD signal	0	TP3507
3	SI_L	0	Scan control signal	0-3.3	
4	SI_H	0	Scan control signal	0-3.3	
5	GND	-	GND	-	-
6	CLR	0	Scan control signal	0-3.3	
7	CLK	0	Scan control signal	0-3.3	
8	GND	-	GND	-	-
9	LE	0	Scan control signal	0-3.3	
10	OC2	0	Scan control signal	0-3.3	
11	OC1(-1)	0	Scan control signal	0-3.3	
12	GND	-	GND	-	-
13	YSUS-B	0	Y drive/control signal	0-3.3	
14	YSUS-U	0	Y drive/control signal	0-3.3	
15	GND	-	GND	-	-
16	YSUS-D	0	Y drive/control signal	0-3.3	
17	YSUS-G	0	Y drive/control signal	0-3.3	
18	GND	-	GND	-	-
19	YPR-U	0	Y drive/control signal	0-3.3	
20	YRsv1	-	Y drive/control signal (reserve)	-	
21	GND	-	GND	-	-
22	YSUS-MSK	0	Y drive/control signal	0-3.3	
23	YNRST	0	Y drive/control signal	0-3.3	
24	YRsv2	-	Y drive/control signal (reserve)	-	
25	GND	-	GND	-	-
26	YENOFS	0	Y drive/control signal	0-3.3	
27	YRsv3	0	Y drive/control signal (reserve)	-	
28	YSOFT-D	0	Y drive/control signal	0-3.3	
29	GND	-	GND	-	-
30	VOFS_ADJ		Vofs offset adjust	1.85	TP3181
31	VYPRST_ADJ	0	Reset voltage adjust	1.21	TP3182
32	GND	-	GND	-	-
33	GND	-	GND	-	-
34	N.C	-	Not Connected	-	-
35	GND	-	GND	-	-
36	YDD PD	ı	Y drive PD signal	0	TP3509
37	YSUS_PD	i	Y drive PD signal	0	TP3510
38	SCAN PD	i	Y drive PD signal	0	TP3511
39	YDRV PD	i	Y drive PD signal	0	TP3512
40	PSW	0	Function standby signal	0	TP3518

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### CN3501(D15) ⇔ ADDRESS ASSY

Pin No.	Name	I/O	Function	Voltage (V)	TP
1	N.C		Not Connected	-	
2	ADR_PD	1	Address PD signal	0-4	TP3501
3	N.C		Not Connected	-	
4	GND	-	GND	-	-
5	V+8V	0	+8V Vcc	8	TP3618
6	V+8V	0	+8V Vcc	8	TP3618
7	GND	T-	GND	-	-
8	GND	_	GND	-	-
9	N.C		Not Connected	-	
10	TA-	0	LVDS data	1-1.4	
11	TA+	0	LVDS data	1-1.4	
12	N.C		Not Connected	-	
13	GND	T -	GND	-	
14	N.C		Not Connected	-	
15	ТВ-	0	LVDS data	1-1.4	
16	TB+	0	LVDS data	1-1.4	
17	N.C		Not Connected	-	
18	GND	_	GND	-	
19	N.C		Not Connected	-	
20	TC-	0	LVDS data	1-1.4	
21	TC+	0	LVDS data	1-1.4	
22	N.C		Not Connected	-	
23	GND	-	GND	-	
24	N.C		Not Connected	-	
25	TCLK-	0	LVDS data	1-1.4	
26	TCLK+	0	LVDS data	1-1.4	
27	N.C		Not Connected	-	
28	GND	1-	GND	-	
29	N.C		Not Connected	-	
30	TD-	0	LVDS data	1-1.4	
31	TD+	0	LVDS data	1-1.4	
32	N.C		Not Connected	-	
33	GND	-	GND	-	
34	GND	1-	GND	-	-
35	V+3V_D	0	+3V Vcc	3.3	TP3607
36	V+3V D	0	+3V Vcc	3.3	TP3607
37	GND	<del>  -</del>	GND	-	-
38	ADRS 3	0	Output timing control	0	
39	ADRS 2	0	Output timing control	0	
40	GND	+-	GND		<u> </u>

### $\textbf{CN3502(D16)} \Leftrightarrow \textbf{ADDRESS ASSY}$

Pin No.	Name	I/O	Function	Voltage (V)	TP
1	N.C		Not Connected	-	
2	ADR_PD	1	Address PD signal	0-4	TP3502
3	N.C		Not Connected	-	
4	GND	-	GND	-	
5	V+8V	0	+8V Vcc	8	TP3618
6	V+8V	0	+8V Vcc	8	TP3618
7	GND	-	GND	-	
8	GND	-	GND	-	-
9	N.C		Not Connected	-	
10	TA-	0	LVDS data	1-1.4	
11	TA+	0	LVDS data	1-1.4	
12	N.C		Not Connected	-	
13	GND	-	GND	-	
14	N.C		Not Connected	-	
15	ТВ-	0	LVDS data	1-1.4	
16	TB+	0	LVDS data	1-1.4	
17	N.C		Not Connected	-	
18	GND	1-	GND	-	
19	N.C		Not Connected		
20	TC-	0	LVDS data	1-1.4	
21	TC+	0	LVDS data	1-1.4	
22	N.C		Not Connected	-	
23	GND	T-	GND	-	
24	N.C		Not Connected	-	
25	TCLK-	0	LVDS data	1-1.4	
26	TCLK+	0	LVDS data	1-1.4	
27	N.C		Not Connected	-	
28	GND	-	GND	-	-
29	N.C		Not Connected	-	
30	TD-	0	LVDS data	1-1.4	
31	TD+	0	LVDS data	1-1.4	
32	N.C		Not Connected	-	
33	GND	1-	GND	-	
34	GND	T-	GND	-	-
35	V+3V_D	0	+3V Vcc	3.3	TP3607
36	V+3V D	0	+3V Vcc	3.3	TP3607
37	GND	T-	GND	-	-
38	ADRS_3	0	Output timing control	0	
39	ADRS_2	0	Output timing control	0	
40	GND	-	GND		<u> </u>

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### CN3503(D17) ⇔ ADDRESS ASSY

Pin No.	Name	I/O	Function	Voltage (V)	TP
1	N.C		Not connected	-	
2	ADR_PD	1	Adderss PD signal	0-4	TP3503
3	N.C		Not connected	-	
4	GND	-	GND	-	-
5	V+8V	0	+8V Vcc	8	TP3618
6	V+8V	0	+8V Vcc	8	TP3618
7	GND	-	GND	-	-
8	GND	-	GND	-	-
9	N.C		Not connected	-	
10	TA-	0	LVDS data	1-1.4	
11	TA+		LVDS data	1-1.4	
12	N.C		Not connected	-	
13	GND	-	GND	-	-
14	N.C		Not connected	-	
15	TB-	0	LDVS data	1-1.4	
16	TB+	0	LDVS data	1-1.4	
17	N.C		Not connected	-	
18	GND	-	GND	-	-
19	N.C		Not connected	-	
20	TC-	0	LVDS data	1-1.4	
21	TC+	0	LVDS data	1-1.4	
22	N.C		Not connected	-	
23	GND	-	GND	-	-
24	N.C		Not connected	-	
25	TCLK-	0	LVDS data	1-1.4	
26	TCLK+	0	LVDS data	1-1.4	
27	N.C		Not connected	-	
28	GND	-	GND	-	-
29	N.C		Not connected	-	
30	TD-	0	LVDS data	1-1.4	
31	TD+	0	LVDS data	1-1.4	
32	N.C		Not connected	-	
33	GND	-	GND	-	-
34	GND	T-	GND	-	-
35	V+3V_D	0	+3V Vcc	3.3	TP3607
36	V+3V_D	0	+3V Vcc	3.3	TP3607
37	GND	T-	GND	-	-
38	ADRS_3	0	Output timing controled	0	
39	ADRS_2	0	Output timing controled	0	
40	GND	-	GND	-	-

### $\textbf{CN5601(D1)} \Leftrightarrow \textbf{POWER SUPPLY UNIT}$

Pin No.	Name	/OI	Function	Voltage (V)	TP
1	V+12V	1	+12V Vcc input	12	TP3606
2	V+12V	1	+12V Vcc input	12	TP3606
3	GND	-	GND	-	-
4	GND	-	GND		-
5	N.C		Not connected	-	
6	GND	-	GND	-	-
7	N.C		Not connected		
8	EXT_PD	0	Power down signal	0	TP3632
9	VSUS_ADJ	0	Vsus adjust signal	1.67	TP3633
10	PS_PD	1	Powerdown detect signal for POWER SUPPLY	0	TP3634
11	RELAY	0	Replay control signal	3.3	TP3626
12	DRF_B	0	Control signal for large power section	3.3	TP3616
13	AC_DET	1	AC state output panel side	3.3	TP3635
14	PD_TRG_B	1	Powerdown trigga	3.3	TP3636

### $\textbf{CN3002(D12)} \Leftrightarrow \textbf{MAIN ASSY}$

Pin No.	Name	I/O	Function	Voltage (V)	TP
1	GND	0	GND	-	TP3024
2	GND	0	GND	-	TP3024
3	V+1V_D	0	+1.2V Vcc Output	1.24	TP3022
4	V+1V_D	-	+1.2V Vcc Output	1.24	TP3022
5	GND	-	GND	-	TP3024
6	GND	-	GND	-	TP3024
7	V+3V_D	0	+3.3V Vcc Output	3.3	TP3023
8	V+3V_D	0	+3.3V Vcc Output	3.3	TP3023

### CN3151(D24) ⇔ PANEL SENSOR ASSY

	<u> </u>				
Pin No.	Name	I/O	Function	Voltage (V)	TP
1	STA3.3V	0	+3.3V Vcc Output	3.3	TP3159
2	TEMP1	1	Panel thermal sensor signal	2	TP3161
3	GND	_	GND	-	TP3162

### CN3504(D18) ⇔ ADDRESS ASSY

Pin No.	Name	I/O	Function	Voltage (V)	TP
1	N.C		Not connected	-	
2	ADR_PD	1	Adderss PD signal	0-4	TP3504
3	PSIZE	- 1	Siza distinction signal	3.3	
4	GND	-	GND	-	-
5	V+8V	0	+8V Vcc	8	TP3618
6	V+8V	0	+8V Vcc	8	TP3618
7	GND	-	GND	-	-
8	GND	T-	GND	-	-
9	N.C		Not connected	-	
10	TA-	0	LVDS data	1-1.4	
11	TA+	0	LVDS data	1-1.4	
12	N.C		Not connected	-	
13	GND	-	GND	-	-
14	N.C		Not connected	-	
15	TB-	0	LDVS data	1-1.4	
16	TB+	0	LDVS data	1-1.4	
17	N.C		Not connected	-	
18	GND	-	GND	-	-
19	N.C		Not connected	-	
20	TC-	0	LVDS data	1-1.4	
21	TC+	0	LVDS data	1-1.4	
22	N.C		Not connected	-	
23	GND	-	GND	-	
24	N.C		Not connected	-	
25	TCLK-	0	LVDS data	1-1.4	
26	TCLK+	0	LVDS data	1-1.4	
27	N.C		Not connected	-	
28	GND	-	GND	-	-
29	N.C		Not connected	-	
30	TD-	0	LVDS data	1-1.4	
31	TD+	0	LVDS data	1-1.4	
32	N.C		Not connected	-	
33	GND	-	GND	-	-
34	GND	-	GND	-	-
35	V+3V_D	0	+3V Vcc	3.3	TP3607
36	V+3V_D	0	+3V Vcc	3.3	TP3607
37	GND	-	GND	-	-
38	ADRS_3	0	Output timing controled	0	
39	ADRS_2	0	Output timing controled	0	
40	GND	-	GND	-	-

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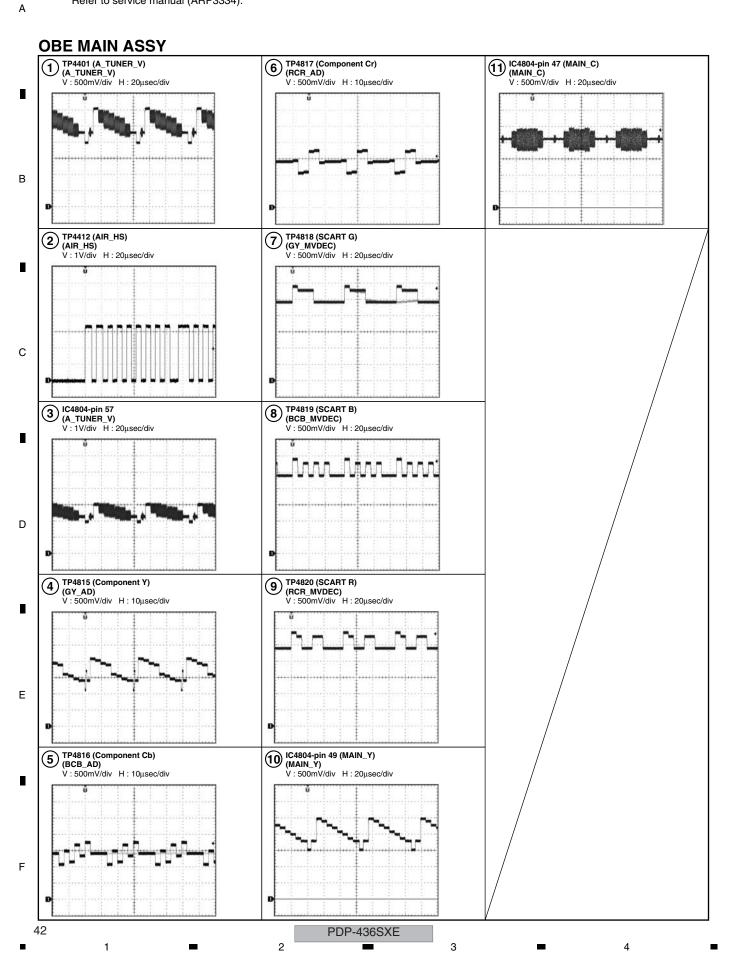
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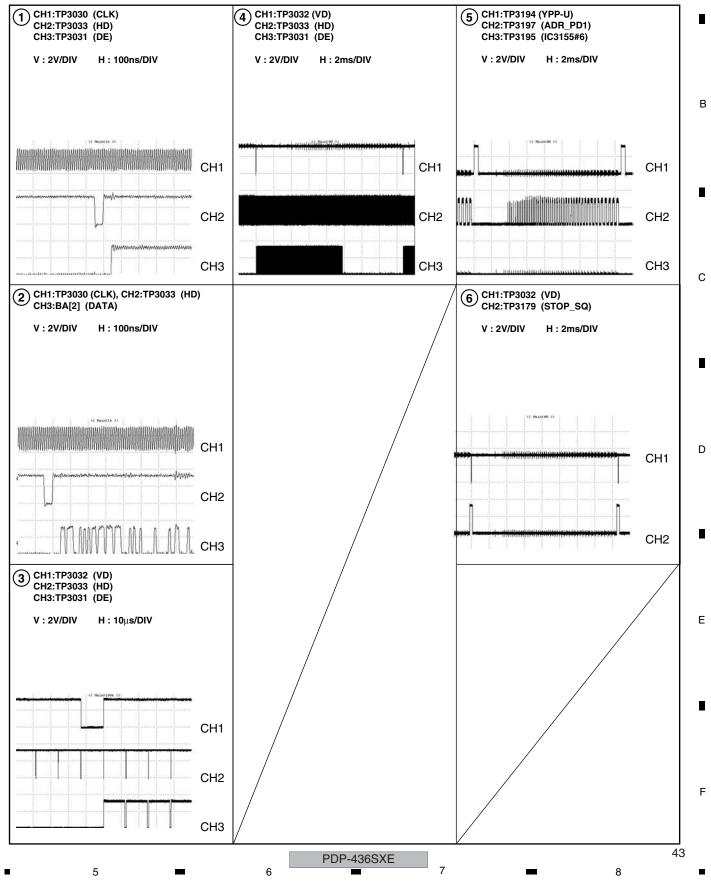
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Note: The encircled numbers denote measuring point in the schematic diagram. Refer to service manual (ARP3334).



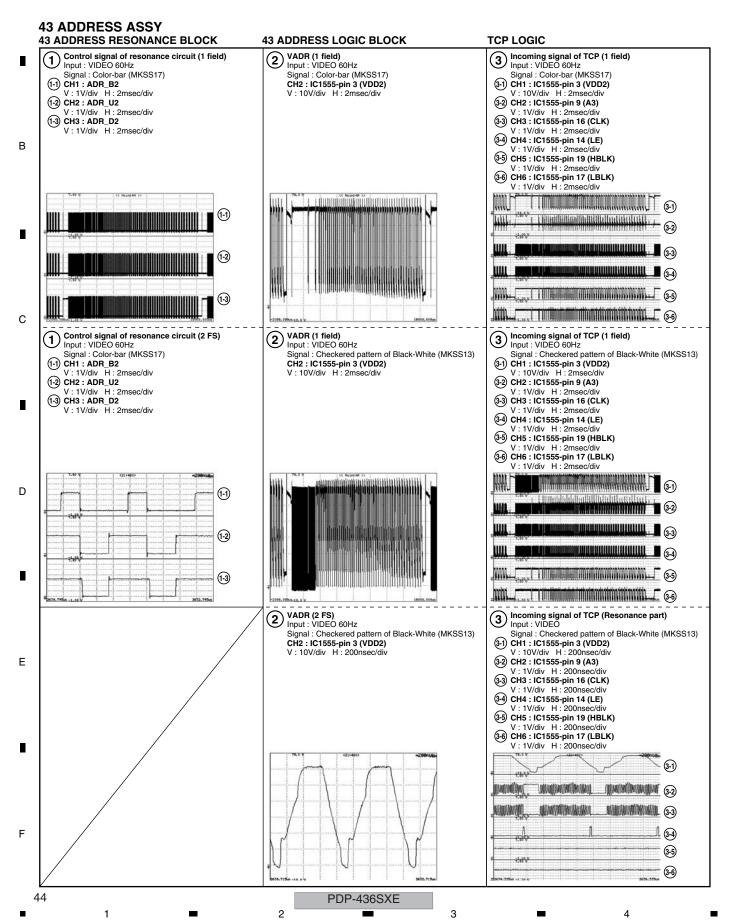
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### **MODULE UCOM BLOCK**



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# **5. PCB PARTS LIST**

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NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples. Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

 $5.62k \Omega \rightarrow 562 \times 10^{1} \rightarrow 5621 \dots RN1/4PC \overline{5} \overline{6} \overline{2} \overline{1} F$ 

### ■ LIST OF WHOLE PCB ASSEMBLIES

Mark	Symbol and Description	PDP-436SXE /WYVIXK5	PDP-436RXE /WYVXK5	PDP-436RXE /WYVI5
	1R06 D-TUNER ASSY	AWE1304	Not used	Not used
	1OBE MAIN ASSY	AWV2238	AWV2239	AWV2239
NSP	1OBE FUKUGO ASSY	AWV2237	AWV2237	AWV2237
	2AUDIO ASSY	AWW1087	AWW1087	AWW1087
	2SR ASSY	AWW1088	AWW1088	AWW1088
	2TUNER ASSY	AWW1089	AWW1089	AWW1089
	2FRONT ASSY	AWW1090	AWW1090	AWW1090
	2LED ASSY	AWW1091	AWW1091	AWW1091
	2IR ASSY	AWW1092	AWW1092	AWW1092
	2KEY ASSY	AWW1093	AWW1093	AWW1093
	2PANEL SENSOR ASSY	AWW1094	AWW1094	AWW1094
	2SUBPOWER ASSY	AWW1095	AWW1095	AWW1095
	1OB DIGITAL ASSY	AWV2244	AWV2244	AWV2244
NSP	1PANEL CHASSIS (436) ASSY	AWU1145	AWU1145	AWU1145
NSP	243 ADDRESS ASSY	AWV2204	AWV2204	AWV2204
NSP	243 SCAN ASSY	AWV2207	AWV2207	AWV2207
NSP	343 SCAN A ASSY	AWW1018	AWW1018	AWW1018
NSP	343 SCAN B ASSY	AWW1019	AWW1019	AWW1019
NSP	143 X DRIVE ASSY ASSY	AWV2255	AWV2255	AWV2255
NSP	243 X DRIVE ASSY	AWW1074	AWW1074	AWW1074
NSP	2SUS CLAMP 1 ASSY	AWW1022	AWW1022	AWW1022
NSP	2SUS CLAMP 2 ASSY	AWW1023	AWW1023	AWW1023
	143 Y DRIVE ASSY	AWV2256	AWV2256	AWV2256
<u> </u>	1POWER SUPPLY UNIT	AXY1133	AXY1133	AXY1133

### **MAIN ASSY**

E AWV2238 and AWV2239 are constructed the same except for the following:

<u>Mark</u>	Symbol and Description	<u>AWV2238</u>	<u>AWV2239</u>
	BOARD IF BLOCK		
	R4007	RS1/16SS0R0J	Not used
	R4008	Not used	RS1/16SS0R0J
	R4012	RS1/16SS101J	Not used
	CN4004 50P CONNECTOR	AKM1201	Not used
	CN4005 40P CONNECTOR	AKM1217	Not used
	AV SW BLOCK		
	Q4817, Q4819	2SC4116	Not used
	Q4822, Q4823	2SA1586	Not used
	C4881	CKSSYF104Z16	Not used
	C4882, C4883 (10/16)	DCH1165	Not used
	R4942, R4943	RS1/16S182J	Not used

	5		0	_		0	_
Mark	Symbol and Descript	ion	AWV2238	AWV2239			
	R4953, R4968		RS1/16SS101J	Not used			
	R4954, R4969		RS1/16S470J	Not used			
	R4955, R4956		RS1/16S102J	Not used			
	R4958, R4971		RS1/16SS102J	Not used			Α
	R4957, R4970		RS1/16SS104J	Not used			
	IFUCOM BLOCK						
	Q5005		DTA124EUA	Not used			
	R5076		RS1/16SS202J	Not used			
	R5079		RS1/16SS0R0J	Not used			
	MAINUCOM BLOCK						
	IC5204		TC74VHC125FTS1	Not used			
	C5210		CKSSYF104Z16	Not used			
	R5231, R5243 R5251		RS1/16SS103J Not used	Not used RS1/16SS103J			_
lark No		Part		Mark No.	Description	Part No.	В
	-TUNER ASSY (436S			<u></u>		<u> </u>	
	R BLOCK]	AL IIIC	aci omy)	[DEMUX BLO	)CK1		
	ONDUCTORS			SEMICONDU			
IC1001		STV036		IC2001		SN74LVU04APW	
IC1000		UPC322		IC2000		STI5517DWAL	
Q1001		2SC241		IC2002		TC74VHC08FTS1	
Q1002		DTC124	EUA	Q2000		2SC4081	
Q1003	,Q1004	RK7002		D2000		DA204U	
D1001		1SS355		D2002		HVU307	С
<b></b> ∆D1000		SM15T6	V8A	D2005,D2009		RB501V-40	
				D2000,B2000		UDZS8R2(B)	
COILS	AND FILTERS			VA2002		AVR-M1608C120MT2AB	
L1002		LCYAR8	2J2520	COILS AND	FILTERS		
	F1003-F1010 FERRITE BEAD	VTF109	1		FERRITE BEAD	VTF1091	
	F1014 FERRITE BEAD	VTF109			FERRITE BEAD	XTX1003	
	F1101 FERRITE BEAD	VTF109				71.71.000	_
F1202-	F1204 FERRITE BEAD	VTF109	I	CAPACITOR	<u>s</u>		
E1000	SAW FILTER	XTF1002	)	C2014,C2016		CCSRCH100D50	
	CHIP FERRITE BEAD	XTX1002		C2000,C2026	C2030	CCSRCH101J50	
	CHIP FERRITE BEAD	XTX100		C2009		CCSRCH330J50	
	CHIP BALUN TRANS	XTX100		C2011,C2012		CCSRCH390J50	D
		7(17(100)		C2007		CCSRCH471J50	_
CAPAC C1054		BCG105	0	C2032-C2034	,C2036	CEHVKW470M16	
	.C1038.C1042.C1046.C1051	CCG120		C2008,C2017	,C2020,C2021	CKSRYB102K50	
	,C1044		J3R0C50	C2013		CKSRYB105K10	
C1043			V100M16	C2001		CKSRYB471K50	
C1019			V100M10	C2002,C2003	,C2005,C2006	CKSRYF104Z16	
C1004	,C1055	CEHVK	V101M6R3	· ·	,C2022-C2025,C2028	CKSRYF104Z16	
C1010			V2R2M50		-C2041,C2043-C2045	CKSRYF104Z16	
C1102			V331M6R3	C2047,C2048		CKSRYF104Z16	
	.C1027,C1029,C1050		V470M16	C2015		CKSRYF105Z10	
	,C1057		V470M16	C2027,C2029	,C2042,C2046	CKSRYF223Z50	Е
C1015		CKSRYE	3102K50	C2004		CKSRYF474Z16	
	,C1021,C1040,C1041,C1045	CKSRYE		DE0:0=0=0			
	-C1003,C1017,C1022	CKSRYE		RESISTORS			
	,C1026,C1030-C1035,C1037	CKSRYE		R2010,R2018	,R2042	RAB4C103J	
C1039	,C1049,C1053,C1058-C1062	CKSRYE	3104K16	R2070,R2071 Other Resistor	'S	RAB4CQ220J RS1/16S###J	
C1036		CKSRYE	3105K10				
	TO DO			OTHERS X2001 CRYS	TΔI	ASS1172	
RESIST		D04/400	NII II I	X2001 CRYS		BSS1112	
All Res	sistors	RS1/16S	o###J	1.2000 01110	- \···-/	<u>-</u>	F
<u>OTHER</u>							'
	0 CHIP FUSE (0.25A)	XEK100					
X1100	CRYSTAL (27MHz)	XSS101	U				

PDP-436SXE 7

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	Mark No. Description	Part No.	Mark No.	Description	Part No.
	[MEMORY BLOCK] SEMICONDUCTORS IC3000,IC3003	K4S281632F-UC75	CAPACITORS C5005,C5100 C5001		CEHVKW470M16 CKSRYB105K10
	COILS AND FILTERS  L3005 CHIP FERRITE BEAD  L3003 CHIP FERRITE BEAD	XTX1001 XTX1003	RESISTORS R5014,R5019,R	5006,C5008-C5013 5022,R5024,R5030	CKSRYF104Z16  RAB4CQ470J
	CAPACITORS C3010 C3000,C3003,C3007,C3008,C3012 C3017,C3020-C3022 C3001,C3002,C3004,C3014,C3015 C3018,C3019,C3023,C3024	CEHVKW470M16 CKSRYF104Z16 CKSRYF104Z16 CKSRYF223Z50 CKSRYF223Z50	Other Resistors  OTHERS	5038,R5045-R5050 CIA CONNECTOR	RAB4CQ470J RS1/16S###J XKP1003
	RESISTORS R3004-R3014 Other Resistors	RAB4CQ470J RS1/16S###J	[POWER BLOC SEMICONDUC IC6002 IC6003 IC6001	-	BA05FP FPF2002 M5291FP
	[AV BLOCK] SEMICONDUCTORS IC4000	CS4334-KS	IC6200 Q6006		TC74LCX245FTS1 2SB1188
	IC4003 IC4100 IC4002 IC4001 Q4001,Q4002	CS8406CZZ PCM1803DB RC4558D SN74LVU04APW 2SC4081	Q6100 Q6003,Q6005,G Q6001,Q6009,G Q6008 D6003,D6100-D	06011,Q6200	2SC4081 DTA143EUA DTC124EUA TPC8209 1SS355
	COILS AND FILTERS F4000,F4100 CHIP FERRITE BEAD	VTF1091	D6001 D6103		RSX201L-30 UDZS30(B)
	CAPACITORS C4000,C4002 C4010,C4011,C4042 C4008,C4009 C4007,C4013	CCG1205 CCSRCH101J50 CCSRCH121J50 CCSRCH220J50	COILS AND F L6000 F6000 CHIP FI L6001,L6100,L6 CHIP IN	ERRITE BEAD	LCYAR82J2520 VTF1091 XTH1001
)	C4019,C4102-C4104,C4108-C4113  C4004 C4012,C4022,C4023,C4029,C4039 C4006 C4001,C4014,C4032,C4033,C4038 C4040,C4041	CEHVKW100M16  CEHVKW2R2M50 CEHVKW470M16 CKSRYB102K50 CKSRYB103K50 CKSRYB105K10	CAPACITORS C6027 C6010 C6004 C6017,C6028,C C6031	6036,C6042,C6044	CCSRCH101J50 CCSRCH331J50 CEHVKW100M50 CEHVKW101M6R3 CEHVKW2R2M50
	C4003,C4005,C4017,C4018,C4021 C4024,C4043,C4105-C4107 <b>RESISTORS</b>	CKSRYF104Z16 CKSRYF104Z16	C6023,C6100 C6022	6104-C6106 6013-C6015,C6019 6006,C6012,C6018	CEHVKW331M6R3 CEHVKW470M16 CEHVKW470M16 CKSRYB105K10 CKSRYF104Z16
	R4042,R4045,R4046 Other Resistors	RS1/16S2000F RS1/16S###J	C6020,C6021,C C6033,C6038,C	6025,C6029,C6030	CKSRYF104Z16 CKSRYF104Z16
	OTHERS  CN4000 40P CONNECTOR  JA4000 OPTICAL OUT MODULE  X4000 CRYSTAL (12.288MHz)	AKM1217 GP1FM513TZ XSS1006	C6002,C6035 C6008,C6016 RESISTORS R6031		CKSRYF223Z50 CKSRYF474Z16 RAB4C221J
	[COMMON-INTERFACE BLOCK] SEMICONDUCTORS IC5001	CIMAXSP2L	R6012-R6014 R6204,R6205 Other Resistors		RAB4C2R2J RAB4CQ101J RS1/16S###J
	IC5000 IC5002 IC5003,IC5004 Q5000	ST890CDR TC74LCX245FTS1 TC74LCX373FT 2SC4081	OTHERS  CN6003 50P C  CN6000 PHP C	CONNECTOR CONNECTOR 12P	AKM1236 AKM1298
	Q5001 Q5002	DTA143EUA DTC124EUA			
1	48 1 ■	PDP-436S	XE 3	-	4

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Mark No. Description	Part No.		Mark No.	Description	Part No.	
[PC CARD BLOCK]			C4213, C4234		CEHVKW470M16	
			C4214		CKSRYB104K16	
SEMICONDUCTORS	\0.444.aa=		C4203, C4217,	C4223	CKSRYB105K10	
IC3002	XYW1005		C4266	0.1220	CKSRYB471K50	Α
OTHERS.			0.200		0.10.1.2	, ,
<u>OTHERS</u>			C4229, C4252		CKSSYB104K10	
16-18 SCREW	ABZ30P060FTC		C4232		CKSSYB471K50	
11 PCMCIA EJECTOR	ANG2673		C4204, C4212,	C4227, C4251, C4256	CKSSYF104Z16	
12-15 SCREW	PMZ20P100FNI		C4258, C4261,	C4262, C4265, C7267	CKSSYF104Z16	
9 TOP CAN	XNG1002		C4211, C4225	(10/16)	DCH1165	
						-
			<u>RESISTORS</u>			
<b>OBE MAIN ASSY (436SXE</b>	model)		R4221, R4226		RS1/10S0R0J	
	illouel)		R4228-R4231		RS1/16S###J	
[BOARDIF BLOCK]			Other Resistors	3	RS1/16SS###J	
<u>SEMICONDUCTORS</u>						В
IC4003-IC4005, IC4007	TC74VCX541FT		CTUNIED IS DI	001/7		Ь
Q4001, Q4010	DTC124EUA		[TUNER IF BL	_		
			<u>SEMICONDU</u>	<u>CTORS</u>		
<u>CAPACITORS</u>			Q4404		2SA1586	
C4036	CCSRCH101J50		Q4401, Q4402		2SC4116	
C4012	CCSSCH101J50		Q4414		DTA124EUA	_
C4001, C4002, C4051, C4063	CKSRYB105K6R3		Q4413		DTC124EUA	
C4003-C4006	CKSRYB221K50		Q4405		HN1B04FU	
C4011, C4013-C4015	CKSSYF104Z16		D4404		LID7000/D)	
DECICTORS			D4401		UDZS33(B)	
RESISTORS	D. D. ( D. C. C. C. )		CADACITODO			
R4028, R4029, R4032-R4037	RAB4CQ220J		CAPACITORS	_	1007040	
R4040-R4043, R4047, R4051	RAB4CQ220J		C4416, C4459	(10/6.3)	ACG7046	С
R4009-R4011	RS1/10S0R0J		C4420		CKSRYB332K50	
R4050, R4052, R4058, R4061-R4064 R4102, R4105, R4107, R4110-R4113	RS1/16S###J RS1/16S###J		C4401, C4402		CKSRYF104Z50	
Other Resistors	RS1/16SS###J		RESISTORS			
Other resistors	1101/1000###0			D4410 D4450 D4460	DC1/16C### I	
<u>OTHERS</u>			Other Resistors	R4419, R4452, R4460	RS1/16S###J RS1/16SS###J	
CN4004 50P CONNECTER	AKM1201		Other nesistors		no 1/1000###J	
CN4001, CN4005 40P CONNECTER			OTHERS			
CN4009, CN4028 CONNECTOR	AKM1274		CN4401 40P	CONNECTED	AVM1017	
CN4027 CONNECTOR	AKM1279		CN4401 40F	CONNECTER	AKM1217	
CN4011 50P CONNECTER	AKM1345					
			[AV IO BLOCK	(1		
			SEMICONDU			D
[REG BLOCK]				Q4626, Q4639	2SA1586	
SEMICONDUCTORS				, Q4625, Q4646 , Q4645, Q4646	2SA1586	
IC4212, IC4214	BD6522F			Q4607, Q4608	2SC4116	
IC4211, IC4213	MM1661JH			Q4622-Q4624, Q4629	2SC4116	
IC4202	NCP1117ST15		Q4632-Q4636,	•	2SC4116	
IC4209	NCP1117ST18		Q .002 Q .000,	Q.10.10	2000	
IC4201	PQ025ENA1ZPH		Q4611, Q4612		2SD2114K	
			Q4606, Q4616,	, Q4621, Q4631	DTA124EUA	
IC4204, IC4205	PQ033ENA1ZPH		Q4610		DTA143EUA	
IC4206	PQ050DNA1ZPH		Q4613, Q4617		DTC124EUA	
IC4203	PQ090DNA1ZPH		Q4601, Q4609,	, Q4625, Q4630	HN1A01FU	
Q4201	DTC124EUA					E
D4201-D4206, D4209, D4211, D4212	1SS355		Q4644		HN1C01FU	
COULC AND FUTERS			D4602, D4607,	D4611, D4621	1SS301	
COILS AND FILTERS	D.T		D4631-D4633		1SS302	
L4201 INDUCTOR	BTH1111		D4606, D4626		1SS355	
1 L4204-L4206 CHIP BEADS FILTER	BTX1042		OOU O AND F	TEDO		
	1 CCG 1 162		COILS AND F			
CADACITODE			L4602, L4604,	L4606, L4608	LCTAW1R0J2520	
CAPACITORS	1007040		L4611, L4612	1 4005 1 4007	LCTAW1R0J2520	
C4201, C4206, C4209, C4215, C4220	ACG7046		L4601, L4603,	L4605, L4607	LCTAW560J2520	
C4240, C4250, C4253, C4255, C4264 (10/6.3)	ACG7046		L4609, L4610		LCTAW560J2520	
(10/6.3) C4210, C4244, C4269 (4700/63)	ACH1429		CAPACITORS	2		
C4259	CCSRCH471J50		_		ACC7046	F
C4205, C4219, C4224, C4228	CEHVKW101M6R3		C4601, C4605, C4636	C4620, C4621, C4634	ACG7046 ACG7046	
0.200, 0.210, 0 ILL I, 07LL0	ti			C4635, C4639, C4640		
C4226	CEHVKW220M16		C4602, C4623, C4644	, ,	ACH1368	
	_			(220/10)	, 10111000	49
_	_	PDP-43	36SXE		_	<del>⊤</del> ∂

C4697, C4611, C4619, C4619, C4629   C2710   CGG1205   C4850, C4851, C4276, C4879   CKSPY9105K10   C4862, C4643, C4690   C2710   CGF47171110   C4696, C4600, C4600, C4600, C4600, C4600, C4612   C46717, C4615, C46	Mark No Deceription	Part No	Mark No Description	Dort No
CH628, CH648, CH699	Mark No. Description	Part No.	Mark No. Description	Part No.
C-468, C-468, C-469, C-4612   C-5001-205   C-4637   C-4637   C-4637   C-4636, C-4636, C-4608, C-4608, C-4612   C-4615, C-4616, C-4616, C-4612, C-4612   C-4615, C-4616, C-4628, C-46	C4607, C4611, C4617, C4619, C4624	CCG1205		
C-0418 C				
C4686, C4696, C4696, C4697, C4698   C4672   C4687, C4686, C4687, C4686, C4687, C4686, C4687, C4688, C4687, C4688, C4687, C4688, C4687, C4688, C4687, C4688, C4687		CCG1205		CKSRYB474K10
C4451, C4461, C4462, C4652, C4654, C4674,		CEHAT471M10		CKSSYB103K16
CA681-CA683, CA641, CA682         CKSFYB105K10         CA695-CA686         CKSSYB10K10         CA697, CA689         CKSSYB10K10         CA697, CA698, CA6946, CA4964         CKSSYB10K10         CA697, CA698, CA697, CA697         CKSSYB10K10         CA697, CA698, CA697, CA697         CKSSYB10K10         CA697, CA698, CA697, CA697         CA697, CA698, CA697, CA696         CKSSYB10K10         CA697, CA698, CA697, CA697         CA697, CA698, CA697, CA696         CKSSYB10K10         CA697, CA698, CA697, CA695         CA697, CA698, CA697, CA696         CA697, CA698, CA697, CA696         CA697, CA698         CA697, CA698, CA697, CA696         CA697, CA698         CA697,	C4606, C4608, C4609, C4612	CKSRYB105K10	C4869, C4870, C4890-C4893	CKSSYB103K16
C4645, C4646, C4650, C4652-C4654   CKSPYB105K10   CK85YB105K10	C4615, C4616, C4626, C4629	CKSRYB105K10		
CAMBB,	C4631-C4633, C4641, C4642	CKSRYB105K10	C4950-C4954	CKSSYB103K16
CA681-CA683			C4807, C4809	CKSSYB104K10
C4610, C4613, C4627, C4630	C4645, C4646, C4650, C4652-C4654	CKSRYB105K10	C4801, C4819, C4845, C4846, C4864	CKSSYF104Z16
CA697, CA698	C4661-C4663	CKSRYB105K10	C4873, C4881, C4884, C4886, C4887	CKSSYF104Z16
CA697, CA698	C4610, C4613, C4627, C4630	CKSSYB102K50	C4917-C4920, C4924, C4925	CKSSYF104Z16
C4894, C4622, C4637, C4651   CKSSYF104216   C4690, C4695, C4698 (10/16)   DCH1165   C4690, C4695, C4698 (10/16)   DCH1165	C4647, C4648	CKSSYB102K50		
C4894, C4822, C4837, C4851   CKSSYF104Z16	<b>△</b> C4671-C4676	CKSSYB102K50	C4844, C4863, C4866, C4872, C4876	DCH1165
CA680, C4625, C4638 (10/16)   DCH1165   RESISTORS   RESISTORS   R4787, R4796   R4776, R4696   R4608, R4670, R4696   R4798, R4787, R4796   R4798, R47379   R4796   R4791, R4749   R4796, R4796   R4791, R4749   R4796, R4795   R4791, R4749   R4795, R4795   R4791, R4749   R4795, R4795   R4794, R4795   R4795, R4795   R4795, R4795   R4795, R4795   R4795, R4995, R4994, R4996   R4795, R4795, R4997, R4993, R4949   R4795, R4795, R4797, R4793, R4796   R4794, R4795   R4795, R4997, R4993, R4949   R4795, R4795, R4997, R4993, R4949   R4795, R4997, R4998, R4997, R4999, R4997, R4999, R4997, R4998, R4997, R4999, R4			C4882, C4883 (10/16)	DCH1165
RESISTORS   R4787, R4786   R51/1658000   R	C4604, C4614, C4622, C4637, C4651	CKSSYF104Z16		
RESISTORS   R460B, R4670, R460B   R51/16S121J   R4784, R478B   R4787, R4792, R4794, R479B   R51/16S500F   R4601, R4644, R4645, R4645, R4658, R468B   R51/10S151J   R4783, R4787, R4782, R4794, R479B   R51/16S5760F   R4630-R4632, R4643, R4675, R4681   R51/16S760F   R4630-R4632, R4643, R4675, R4681   R51/16S2##J   R4630-R4632, R4643, R4675, R4681   R51/16S2##J   R51/16S2##J   R6401-R4616, R4662, R4665, R4665, R4667   R51/16S2##J   R51		DCH1165	RESISTORS	
RESISTORS   R4608, R4670, R4696   R51/105121J   R4608, R4670, R4696   R4601, R4644, R4645, R4658, R4686   R51/105151J   R4791, R4793   R4795   R51/16557800F   R4734, R4725   R51/16557800F   R4942, R4925, R4927, R4933, R4949   R51/16557800F   R4940, R4950, R4954, R4950, R4956, R4957, R4969   R51/16558444				DC1/16C1900E
R860B, R4670, R4696   R851/10S121J   R4791, R4795, R4795   R851/16S5760F   R4704, R4785   R4781, R4795, R4795   R4861, R4644, R4645, R4686   R811/0S151J   R4857-R4680, R4944, R4895   R51/16S3891J   R4801-R4642, R4733, R4740-R4742   R51/16S151J   R4857-R4680, R4944, R4895   R51/16S3891J   R4921, R4925, R4927, R4933, R4942   R51/16S3891J   R4961, R4962, R4643, R4793, R4740-R4742   R51/16S3891J   R4961, R4962, R4663, R4661, R4661-R46612   R4661, R4661-R46612   R4661, R46612, R4666, R46667   R46614, R46661, R46662, R46665, R46667   R51/16S3891J   R51/16S389	RESISTORS		· · · · · · · · · · · · · · · · · · ·	
R4601, R4644, R4645, R4658, R4698   R51/10S151J   R4957-R4860, R4944, R4895   R51/16S38301F   R4715-R4715, R4735   R4715-R4721   R4735, R4740-R4742   R51/16S780F   R4715-R4717, R4735, R4740-R4742   R51/16S780F   R4916, R4607, R4969   R4916, R4610-R4612   R51/16S2##J   R51/16S2##J   R4943, R4605, R4610-R4612   R51/16S2##J   R50003   P579230N   R51/16S2##J   R51/16S2##J   R51/16S2##J   R50003   P579230N   R51/16S2##J   R50004   R51/16S2##J   R50004		DC1/10C101 I		
R473, R4735   R4643, R4675, R4681   R51/1657F0F   R4943, R4930, R4942, R4958, R4966, R4967, R4968   R51/1657F0F   R4943, R4950, R4954-R4956, R4965   R51/16587#J   R4943, R4950, R4954-R4956, R4965, R4966, R4967, R4968   R51/16587#J   R4943, R4950, R4954-R4956, R4966, R4967, R4968   R51/16587#J   R4943, R4950, R4954-R4956, R4966, R4967, R4969   R51/16587#J   R4943, R4950, R4954-R4956, R4967, R4969   R51/16587#J   R51/1	,,		· · · · · · · · · · · · · · · · · · ·	
R850-R4622, R4645, R4675, R4681   R51/16578R0F   R4943, R4950, R4954-R4956, R4965   R51/1652##J   R4960, R4867, R4969   R51/1652##J   R51/1652##J   R4943, R4963, R4860, R48610-R4612   R51/1652##J				
R4715-R4717, R4733, R4740-R4742 R51/16S75R0F R49045, R4950, R4954-R4956, R4965 R51/16S8##J R4966, R4967, P4969 Other Resistors R51/16S8##J R50603 P519230N R51/16S8##J R51/16S8##J R51/16S8##J R51/16S8##J R50603 P519230N R51/16S8##J R51/16S8##J R51/16S8##J R51/16S8##J R50604 T574/40C96FTS1 R51/16S8##J R51/1	*		H4921, H4925-H4927, H4933, H4942	HS1/16S###J
R4602, R4603, R4605, R4610-R4612 R51/16S###J R4614-R4616, R4621-R4623, R4626 R4651, R4602, R4656, R4657, R4860 R4651, R4602, R4666, R4657, R4860 R4661, R4602, R46664, R4665, R4667 R4661, R4602, R46664, R4665, R4667 R4661, R4602, R4664, R4665, R4667 R4661, R4602, R4664, R4665, R4667 R4661, R4602, R4664, R4665, R4667 R4601, R4603, R4604 R4601, R4604 R4601, R4604 R4601, R4604 R4601, R4604 R4601, R4604 R4605 R4604			D4040 B4050 B4054 B4055	D04/400
R4602, R4603, R4606, R461-P4616, R4621-P4622, R4626, R4639-R4648-R4636, R4639-R4648-R4656, R4639-R4648-R4656, R4667-R4666, R4672-R4666, R4667-R4666, R4672-R4666, R4667-R4666, R4672-R4666, R4672-R4667-R4672-R4667-R4672-R	H4/15-H4717, H4733, R4740-R4742	HS1/16S75H0F		
R6161-R4616, R4621-R4623, R46266 R4635, R4636, R46361, R46467, R4660 R4645, R4662, R46667, R4660 R4661, R4662, R46667, R4660 R4661, R4662, R46667, R46667 R4693, R4693, R4694, R4685, R4690 R4691, R4693, R4694, R4685, R4690 R51/16S##J R699-R4711, R4721, R4736, R4737 R4738, R4739 R4739, R4739 R4739, R4739 R51/16S##J R51/	B.000 B.000 B.000 -	D0.//.00		
R4658, R4639, R4659, R4660   R57, R4660   R51/16S##J   R4661, R4662, R4664, R4665, R4667   R51/16S##J   R4661, R4662, R4664, R4665, R4667   R51/16S##J   R4661, R4662, R4664, R4665, R4667   R51/16S##J   R4661, R4662, R4684, R4665, R4667   R51/16S##J   R4661, R4662, R4684, R4665, R4667   R51/16S##J   R51/16S##J   R51/16S##J   R51/16S##J   R51/16S##J   R51/16S##J   R51/16S##J   R50004   TC74V+C08FTST   R4738, R4739   R51/16S##J   R51/16S##J   R50005   R51/16S##J   R51/16S##J   R51/16S##J   R51/16S##J   R51/16S##J   R51/16S##J   R51/16S##J   R51/16S##J   R51/16S##J   R50005   R51/16S##J   R50005   R51/16S##J   R50005			Other Resistors	RS1/16SS###J
R4648-R4650, R4656, R4667, R4660   R51/16S##J   R1/16S##J   R4661, R4662, R4664, R4665, R4667   R51/16S##J   C5002   HD64F3684FP   R51/16S##J   C5003   P519230N   R51/16S##J   C5003   P519230N   R51/16S##J   C5001   TC74VHC08FTS1   TC74VHC08FTS				
R4661, R4662, R4664, R4665, R4667   R51/16S##J   SEMICONDUCTORS				
R468B, R4672, R468B, R4690   R51/16S##J   IC5002   HD64F3684FP   R4691, R4693, R4694, R4697-R4699   R51/16S##J   IC5003   P5T32230N   P5T32230N   R51/16S##J   IC5003   P5T32230N   P5T3	R4648-R4650, R4656, R4657, R4660	RS1/16S###J	[IFUCOM BLOCK]	
R4668, R4672, R4684, R4685, R4690   R4691, R4693, R4693, R4697-R4699   R4691, R4693, R4693, R4697-R4699   R4691, R4693, R4697-R4699   R4691, R4693, R4697-R4699   R4709-R4711, R4721, R47216, R4739   R51/16S##J   C50001   C5001   TC74V1C08FTS1   TC74V1C08FTS1   C5001   TC74V1C08FTS1   TC74V1C08FTS1   C5001   TC74V1C08FTS1   TC74V1C0	R4661, R4662, R4664, R4665, R4667	RS1/16S###J	SEMICONDUCTORS	
R4686, R4697, R4684, R4697-R4690 R4697-R4690 R4697-R4690 R4697-R4698) R4697-R4699 R46987-R4699 R51/1658##J IC5001 TC74VHC08FTS1			· · · · · · · · · · · · · · · · · · ·	HD64F3684FP
R4691, R4693, R4693, R4694, R4697-R4699 R4709-R4711, R4721, R4736, R4739 R4738, R4739 R4738, R4739 R51/1658##J IC5004 TC74V26FU DTA124EUA DTA124EU	R4668, R4672, R4684, R4685, R4690	RS1/16S###J		
R4798-R4711, R4729   R4738, R4736   R4737   R51/1658##J   G5004   DTA124EUA	R4691, R4693, R4694, R4697-R4699	RS1/16S###J		
R3738, R4739		RS1/16S###J		
Other Resistors         RS1/16SS###J         C9005         D1A124EUA           OTHERS         CAPACITORS           JA4604         2P VERTICAL PIN JACK AKB1331         C5007, C5008         CCSSCH180J50           JA4605         PINJACK AKB1333         C5010         CEHVKW101M6F           JA4601-JA4603         RGB CONNECTOR         AKP1295         C5002-C5005, C5009, C5012         CKSSYP1472K25           KIAV SW BLOCKJ         RESISTORS         R5002, R5004, R5025, R5026         RAB4CQ103J         RS1/16SS##J           IC4805         NJM12904V         R2511001FT         OTHERS         R5002, R5004, R5025, R5026         RAB4CQ103J           IC4806         R2S11002FT         X5002, P830MHz)         CERAMIC         ASS1168           C48010         Q48010, Q4804-Q4806, Q4809         R2S11002FT         X5002 (9.830MHz)         CERAMIC         ASS1168           C4812, Q4813, Q4817, Q4819         2SC4116         [MAINUCOM BLOCK]         SEMICONDUCTORS         BR24L64F-W           Q4812, Q4813, Q4817, Q4819         2SC4116         [MAINUCOM BLOCK]         SEMICONDUCTORS           Q4812, Q4813, Q4817, Q4819         1SS301         ICS202         BR24L64F-W           Q4810         HN1B04FU         ICS206         MB91305FMC-G-MB92DL162TE           Q4810         1SS3				
OTHERS         CAPACITORS           JA4604 2P VERTICAL PIN JACK JA4601 3PINJACK JA4605 PINJACK JA4605 PINJACK JA4605 PINJACK JA4605 PINJACK JA4601-JA4603 RGB CONNECTOR AKP1295         C50007, C5008 C50009, C50008 CC5H180J50 CKSSYP472K25 C5010 C5010 CKSSYP472K25 C5010 C5010 CKSSYP472K25 C5010 C5002-C5005, C5009, C5012 CKSSYP472K25 C5002-C5005, C5009, C5012 CKSSYP104Z16           [AV SW BLOCK]         RESISTORS         RAB4CQ103J RS1/16SS##J           SEMICONDUCTORS         NJM12904V Other Resistors         R5002, R5004, R5025, R5026 Other Resistors         RAB4CQ103J RS1/16SS##J           IC4806 (C4806 C4806 R2S11001FT QTHERS)         PR2S11001FT QTHERS         X50002 (9,830MHz) CERAMIC ASS1168 ASS1168 ASS1168 ASS1168 ASS1168 ASS1172         X50002 (9,830MHz) CERAMIC ASS1168 ASS1172         ASS1168 ASS1172 AS	-		Q0000	DIA 124EUA
CABOT, C5008			CADACITODO	
JA4604	OTHERS			
JA4605 PINJACK	· · · · · · · · · · · · · · · · · · ·	ΔKR1331	•	
AA601-JA4603   RGB CONNECTOR   AKP1295   CSS012   CKSSYF104Z16				CEHVKW101M6R3
[AV SW BLOCK] SEMICONDUCTORS  IC4805 IC4806 IC4806 IC4806 IC4806 IC4806 IC4806 IC4806 IC4807 Q4811, Q4802, Q4804-Q4806, Q4809 Q4812, Q4813, Q4817, Q4819 Q4814 Q4815 Q4807 D4802 D4802 D4802 D4802 D4802 D4802 D4803 D5203 D6207 D62				
ACC   CAPACITORS	JA4001-JA4003 Hab CONNECTOR	AN 1293	C5002-C5005, C5009, C5012	CKSSYF104Z16
R5002, R5004, R5025, R5026   RAB4CQ103J R51/16SS##J     C4805			DECICEORO	
SEMICONDUCTORS	[AV SW BLOCK]			
IC4805				
IC4806			Other Resistors	RS1/16SS###J
IC4804				
Q4801, Q4802, Q4804-Q4806, Q4809         2SA1586         X5001 (32.768kHz) CEHAMIC         ASS1168           Q4818, Q4820, Q4822, Q4823         2SA1586         X5001 (32.768kHz) CRYSTAL         ASS1172           Q4812, Q4813, Q4817, Q4819         2SC4116 DTA124EUA         [MAINUCOM BLOCK]           Q4814 Q4815         DTC124EUA         SEMICONDUCTORS           Q4807 HN1804FU         IC5202         BR24L64F-W           Q4802 1SS301         IC5206         MB91305PMC-G-MBM29DL162TE           Q4801 1SS355         IC5207         MBM29DL162TE           Q4801 1SS355         IC5209         PQ200WNA12PH           Q4801 (4.7/10)         ACG1122         IC5213         PST3616UR           Q4821 (4835, C4871, C4875 (10/6.3)         ACG1046         IC5203, IC5211         PST3628UR           Q4821 (4880 C4880         CCSRCH811J50         Q5202         2SJ461A           Q4861 C4888 CCSRCH680J50         Q5204         DTC124EUA           Q4885, C4888 C4888 CCSRCH681J50         Q5201, Q5203         SM6K2           Q4802, C4862 C4862 C4862 CEHVKW101M6R3         D5201         SML-311UT           Q4813, C4814, C4820, C4803, C4834 C4834 C4834 C4831, C4847, C4848         CKSRYB105K10         CAPACITORS           Q4813, C4814, C4820, C4833, C4834 C4834 C4831, C4847, C4848         CKSRYB105K10         CAP			<u>OTHERS</u>	
Q4801, Q4802, Q4804-Q4806, Q4809         2SA1586         X5001 (32.768kHz) CRYSTAL         ASS1172           Q4818, Q4820, Q4822, Q4823         2SA1586         X5001 (32.768kHz) CRYSTAL         ASS1172           Q4818, Q4813, Q4817, Q4819         2SC4116         [MAINUCOM BLOCK]           Q4815         DTC124EUA         SEMICONDUCTORS           Q4807         HN1B04FU         IC5202         BR24L64F-W           D4802         1SS301         IC5206         MB91305PMC-G-MB91			X5002 (9.830MHz) CERAMIC	ASS1168
Q4818, Q4820, Q4822, Q4823         2SA1586           Q4812, Q4813, Q4817, Q4819         2SC4116         [MAINUCOM BLOCK]           Q4814         DTC124EUA         SEMICONDUCTORS           Q4807         HN1B04FU         IC5202         BR24L64F-W           D4802         1SS301         IC5206         MB91305PMC-G-				
Q4814 DTA124EUA SEMICONDUCTORS  Q4807 HN1B04FU IC5202 BR24L64F-W D4802 1SS301 IC5206 MB91305PMC-G- D4801 1SS355 IC5209 PQ200WNA1ZPH D4801 1SS355 IC5213 PST3616UR  CAPACITORS  C4916 (4.7/10) ACG1122 IC5203, IC5211 PST366BUR C4821, C4835, C4871, C4875 (10/6.3) ACG7046 IC5201, IC5204 TC74VHC125FTS C4859 CCSRCH181J50 Q5202 2SJ461A C4859 CCSRCH331J50 Q5202 2SJ461A C4861 CCSRCH680J50 Q5204 DTC124EUA  C4885, C4888 CCSRCH681J50 Q5204 DTC124EUA  C4885, C4888 CCSRCH681J50 Q5201, Q5203 SM6K2 C4822, C4862 CEHVKW101M6R3 D5203 1SS355 C4802, C4805, C4806, C4808 CKSRYB105K10 CAB36, C4836, C4838-C4841, C4847, C4848 CKSRYB105K10 C4836, C4838-C4841, C4847, C4848 CKSRYB105K10 C4836, C4838-C4841, C4847, C4848 CKSRYB105K10 CAPACITORS C5235 CCSRCH221J50	Q4818, Q4820, Q4822, Q4823	2SA1586	,	
Q4814 Q4815 Q4807 DTC124EUA DTC124EUA SEMICONDUCTORS  BR24L64F-W D4802 D4802 D4801 D5206 D4801 D5207 D4801 D5207 MBM29DL162TE7 D4801 D5209 PQ200WNA1ZPH D5209 PC200WNA1ZPH D5213 PST3616UR  CAPACITORS C4916 (4.7/10) C4821, C4835, C4871, C4875 (10/6.3) C4877, C4880 C4877, C4880 C4877, C4880 C4877, C4880 C4876 C4861 CCSRCH331J50 C4861 CCSRCH680J50 CCSRCH680J50 CCSRCH680J50 CCSRCH680J50 CCSRCH680J50 CCSRCH680J50 CCSRCH681J50 C4885, C4888 C4822, C4862 C4802, C4805, C4806, C4808 CKSRYB105K10 C4836, C4838-C4841, C4847, C4848 CKSRYB105K10 CAPACITORS CCSRCH21J50 CCSRCH221J50 CCSRCH221J50	04040 04045 04545 54545	0004446		
Q4815 DTC124EUA SEMICONDUCTORS Q4807 HN1804FU IC5202 BR24L64F-W D4802 1SS301 IC5206 MB91305PMC-G- MBM29DL162TE: D4801 1SS355 IC5209 PQ200WNA1ZPH PST3610UR  CAPACITORS  C4916 (4.7/10) ACG1122 IC5212 PST3616UR C4821, C4835, C4871, C4875 (10/6.3) ACG7046 IC5203, IC5211 PST3628UR C4877, C4880 CCSRCH181J50 IC5201, IC5204 TC774VHC125FTS C4861 CCSRCH680J50 Q5204 DTC124EUA  C4885, C4888 CCSRCH681J50 Q5204 DTC124EUA  C4885, C4888 CCSRCH681J50 D5203 SM6K2 C4822, C4862 CEHVKW101M6R3 D5203 ISS355 C4802, C4805, C4806, C4808 CKSRYB105K10 CAB36, C4838-C4841, C4820, C4833, C4834 CKSRYB105K10 C4836, C4838-C4841, C4847, C4848 CKSRYB105K10 CAPACITORS CCSRCH21J50  CAPACITORS CCSRCH221J50			[MAINUCOM BLOCK]	
Q4807 HN1B04FU IC5202 BR24L64F-W D4802 1SS301 IC5206 MB91305PMC-G- D4801 1SS355 IC5209 PQ200WNA1ZPH D4801 1SS355 IC5213 PST3610UR  CAPACITORS  C4916 (4.7/10) ACG1122 IC5212 PST3616UR C4821, C4835, C4871, C4875 (10/6.3) ACG7046 IC5203, IC5211 PST3628UR C4977, C4880 CCSRCH331J50 IC5201, IC5204 TC74VHC125FTS C4859 CCSRCH331J50 Q5202 2SJ461A C4861 CCSRCH680J50 Q5204 DTC124EUA  C4885, C4888 CCSRCH680J50 Q5204 DTC124EUA  C4885, C4888 CCSRCH681J50 Q5201, Q5203 SM6K2 C4822, C4862 CEHVKW101M6R3 D5203 ISS355 C4802, C4805, C4806, C4808 CKSRYB105K10 CKSRYB105K10 C4836, C4838-C4841, C4847, C4848 CKSRYB105K10 C4836, C4838-C4841, C4847, C4848 CKSRYB105K10 CAPACITORS C5235 CCSRCH221J50				
D4802 1SS301 IC5206 MB91305PMC-G- D4801 1SS355 IC5209 PQ200WNA1ZPH D4801 1SS355 IC5213 PST3610UR  CAPACITORS  C4916 (4.7/10) ACG1122 IC5203, IC5211 PST3616UR  C4821, C4835, C4871, C4875 (10/6.3) ACG7046 IC5203, IC5211 PST3628UR C4877, C4880 CCSRCH181J50 IC5201, IC5204 TC74VHC125FTS C4859 CCSRCH331J50 Q5202 2SJ461A C4861 CCSRCH680J50 Q5204 DTC124EUA  C4885, C4888 CCSRCH680J50 Q5204 DTC124EUA  C4885, C4888 CCSRCH681J50 Q5203 SM6K2 C4822, C4862 CEHVKW101M6R3 D5203 ISS355 C4802, C4805, C4806, C4808 CKSRYB105K10 CAPACITORS C4836, C4838-C4841, C4847, C4848 CKSRYB105K10 C4836, C4838-C4841, C4847, C4848 CKSRYB105K10 C4836, C4838-C4841, C4847, C4848 CKSRYB105K10 CAPACITORS C5235 CCSRCH221J50			· · · · · · · · · · · · · · · · · · ·	BD04L64E W
D4801 1SS355 IC5207 MBM29DL162TE7 D4801 1SS355 IC5209 PQ200WNA1ZPH PST3610UR  CAPACITORS  C4916 (4.7/10) ACG1122 IC5203, IC5211 PST3628UR C4821, C4835, C4871, C4875 (10/6.3) ACG7046 IC5201, IC5201, IC5204 TC74VHC125FTS C4859 CCSRCH331J50 Q5202 2SJ461A C4861 CCSRCH680J50 Q5204 DTC124EUA  C4885, C4888 CCSRCH680J50 Q5204 DTC124EUA  C4885, C4888 CCSRCH681J50 Q5203 SM6K2 C4822, C4862 CEHVKW101M6R3 D5203 ISS355 C4802, C4805, C4806, C4808 CKSRYB105K10 CA813, C4814, C4820, C4833, C4834 CKSRYB105K10 C4836, C4838-C4841, C4847, C4848 CKSRYB105K10 CAPACITORS C5235 CCSRCH221J50				
D4801 1SS355 IC5209 PQ200WNA1ZPH PST3610UR  CAPACITORS  C4916 (4.7/10) ACG1122 IC5212 PST3616UR  C4821, C4835, C4871, C4875 (10/6.3) ACG7046 IC5203, IC5211 PST3628UR  C4877, C4880 CCSRCH181J50 IC5201, IC5204 TC74VHC125FTS  C4859 CCSRCH331J50 Q5202 2SJ461A  C4861 CCSRCH680J50 Q5204 DTC124EUA  C4885, C4888 CCSRCH681J50 Q5201, Q5203 SM6K2  C4822, C4862 CEHVKW101M6R3 D5203 ISS355  C4802, C4805, C4806, C4808 CKSRYB105K10 C4813, C4814, C4820, C4833, C4834 CKSRYB105K10  C4836, C4838-C4841, C4847, C4848 CKSRYB105K10  C4836, C4838-C4841, C4847, C4848 CKSRYB105K10  CAPACITORS  C5235 CCSRCH221J50	D4802	1SS301		
CAPACITORS				MBM29DL162TE70
CAPACITORS         C4916 (4.7/10)       ACG1122       IC5212       PST3616UR         C4821, C4835, C4871, C4875 (10/6.3)       ACG7046       IC5203, IC5211       PST3628UR         C4877, C4880       CCSRCH181J50       Q5202       2SJ461A         C4859       CCSRCH331J50       Q5204       DTC124EUA         C4861       CCSRCH680J50       Q5201, Q5203       SM6K2         C4822, C4888       CCSRCH681J50       Q5201, Q5203       SM6K2         C4822, C4862       CEHVKW101M6R3       D5203       1SS355         C4802, C4805, C4806, C4808       CKSRYB105K10       D5201       SML-311UT         C4813, C4814, C4820, C4833, C4834       CKSRYB105K10       CAPACITORS       CCSRCH221J50         C0       PDP-436SXE       CCSRCH221J50       CCSRCH221J50	D4801	1SS355		PQ200WNA1ZPH
C4916 (4.7/10) ACG1122 IC5212 PST3616UR C4821, C4835, C4871, C4875 (10/6.3) ACG7046 IC5203, IC5211 PST3628UR C4877, C4880 CCSRCH181J50 Q5202 2SJ461A C4861 CCSRCH680J50 Q5204 DTC124EUA  C4885, C4888 CCSRCH681J50 Q5203 SM6K2 C4822, C4862 CEHVKW101M6R3 D5203 1SS355 C4802, C4805, C4806, C4808 CKSRYB105K10 C4813, C4814, C4820, C4833, C4834 CKSRYB105K10 C4836, C4838-C4841, C4847, C4848 CKSRYB105K10 C4836, C4838-C4841, C4847, C4848 CKSRYB105K10 C4836, C4838-C4841, C4847, C4848 CKSRYB105K10 C4876 CAPACITORS C5235 CCSRCH221J50			IC5213	PST3610UR
C4916 (4.7/10) ACG1122 IC5212 PST3616UR C4821, C4835, C4871, C4875 (10/6.3) ACG7046 IC5203, IC5211 PST3628UR C4877, C4880 CCSRCH181J50 Q5202 2SJ461A C4861 CCSRCH680J50 Q5204 DTC124EUA  C4885, C4888 CCSRCH681J50 Q5203 SM6K2 C4822, C4862 CEHVKW101M6R3 D5203 1SS355 C4802, C4805, C4806, C4808 CKSRYB105K10 CKSRYB105K10 C4836, C4838-C4841, C4847, C4848 CKSRYB105K10 C4836, C4838-C4841, C4847, C4848 CKSRYB105K10 CFDP-436SXE  C4916 (4.7/10) ACG1122 IC5212 PST3616UR PST3618UR CF4VHC125PTS CS202 CSBCH2125FTS CCSRCH221J50	<u>CAPACITORS</u>		105040	DOTO: : : : :
C4821, C4835, C4871, C4875 (10/6.3) C4877, C4880 C4877, C4880 C4859 C4861  C4861  CCSRCH680J50  CCSRCH680J50  C4885, C4888 C4822, C4862 C4802, C4805, C4806, C4808 C4813, C4814, C4820, C4833, C4834 C4836, C4838-C4841, C4847, C4848  C4836, C4838-C4841, C4847, C4848  C487, C4848  CCSRCH680J50  CCSR		ACG1122		
C4877, C4880 C4877, C4880 C4859 C4861 CCSRCH331J50 C4885, C4888 CCCSRCH680J50  C4885, C4888 C4822, C4862 C4802, C4805, C4806, C4808 C4813, C4814, C4820, C4833, C4834 C4836, C4838-C4841, C4847, C4848  C4878 C4878 C5235  CCSRCH681J50 CEHVKW101M6R3 D5203 D5203 D5201 SML-311UT  C4813, C4814, C4820, C4834 CKSRYB105K10 C4836, C4838-C4841, C4847, C4848  CKSRYB105K10 CAPACITORS C5235  CCSRCH221J50			The state of the s	
C4859 CCSRCH331J50 Q5202 2SJ461A DTC124EUA  C4861 CCSRCH680J50 Q5204 DTC124EUA  C4885, C4888 CCSRCH681J50 Q5201, Q5203 SM6K2  C4822, C4862 CEHVKW101M6R3 D5203 1SS355  C4802, C4805, C4806, C4808 CKSRYB105K10 D5201 SML-311UT  C4813, C4814, C4820, C4833, C4834 CKSRYB105K10 C4836, C4838-C4841, C4847, C4848 CKSRYB105K10 CKSRYB105K10  C4861 CCSRCH680J50 Q5204 DTC124EUA  C48762 CSRCH680J50 CCSRCH680J50 SM6K2  1SS355 D5201 SML-311UT  C48763 CCSRCH221J50  CCSRCH221J50			•	TC74VHC125FTS1
C4861 CCSRCH680J50 Q5204 DTC124EUA  C4885, C4888 CCSRCH681J50 Q5201, Q5203 SM6K2  C4822, C4862 CEHVKW101M6R3 D5203 1SS355  C4802, C4805, C4806, C4808 CKSRYB105K10 D5201 SML-311UT  C4813, C4814, C4820, C4833, C4834 CKSRYB105K10  C4836, C4838-C4841, C4847, C4848 CKSRYB105K10  C78235 CCSRCH221J50	*			
C4885, C4888			Q5204	DTC124EUA
C4865, C4866 C4822, C4862 C4822, C4862 C4802, C4805, C4806, C4808 C4802, C4805, C4806, C4808 C4813, C4814, C4820, C4833, C4834 C4836, C4838-C4841, C4847, C4848 C4836, C4838-C4841, C4847, C4848 C5235 CCSRCH221J50 CCSRCH221J50 CCSRCH221J50	5 100 1	555151100000		
C4822, C4862 CEHVKW101M6R3 D5203 D5201 SML-311UT  C4802, C4805, C4806, C4808 CKSRYB105K10 D5201 SML-311UT  C4813, C4814, C4820, C4834 CKSRYB105K10 CKSRYB105K10  C4836, C4838-C4841, C4847, C4848 CKSRYB105K10  C5235 CCSRCH221J50	C4885, C4888	CCSRCH681,J50	•	
C4802, C4805, C4806, C4808				1SS355
C4813, C4814, C4820, C4833, C4834 CKSRYB105K10 CKSRYB105K10 CKSRYB105K10 CKSRYB105K10 CCSRCH221J50			D5201	SML-311UT
C4836, C4838-C4841, C4847, C4848 CKSRYB105K10 C5235 CCSRCH221J50  PDP-436SXE				
C5235 CCSRCH221J50			CAPACITORS	
PDP-436SXE	0-1000, 0-1000-0-104 I, 0-4047, 0-4848	ONORTHUNORTU		CCSRCH221J50
	)	DDD 10		
		_		

<u>ark No.                                    </u>	<u>Description</u>	Part No.	<u>Mark No.</u>	<u>Description</u>	Part No.	
C5244, C5245 C5217, C5218	5 3, C5240, C5241	CCSSCH120J50 CCSSCH470J50	Other Resistors		RS1/16SS###J	
C5246-C5251		CCSSCH470J50	OTHERS			
C5238		CEHVKW100M35		IHz) CRYSTAL	ASS1193	
C5201		CEHVKW101M6R3				
C5256, C5263		CKSSYB102K50	[VDEC BLOCK	<b>(</b> 1		
C5216, C5233	3	CKSSYB103K16	SEMICONDU	-		
C5215		CKSSYB472K25	IC6002	010110	HY57V161610ETP-8	
C5202-C5214	, C5219, C5222-C5232	CKSSYF104Z16	IC6002		UPD64015AGM-UE	
	4, C5255, C5257-C5260	CKSSYF104Z16	COILS AND F	III TERS		
C5236 (10/16	)	DCH1165		F6010, F6011 EMI FILTER	R CCG1162	
ESISTORS		ACN14040	CAPACITORS	•		
	3 (330/1/16W)	ACN1248	C6056, C6088		ACG7046	
R5205, R5213	3	RAB4CQ101J RS1/16S1601F	C6078, C6083	(10/0.0)	CCSSCH8R0D50	
R5283			,	C6070, C6074, C6080		
R5282		RS1/16S3301F	C6046, C6058,		CKSSYB104K10	
R5273		RS1/16S8201F	C6066, C6067,		CKSSYB104K10	
R5246, R5248	3, R5249, 0, R4954-R4956, R4965	RS1/16S###J RS1/16S###J	C6075-C6077,	C6081, C6082	CKSSYB104K10	
Other Resisto		RS1/16SS###J	C6084, C6085	,	CKSSYB104K10	
Outer nesisto	10	1 10 1/ 1000###J	C6001-C6008.	C6012-C6028	CKSSYF104Z16	
THERS			· · · · · · · · · · · · · · · · · · ·	C6047, C6048, C6065	CKSSYF104Z16	
	CONNECTED	A1/A44.004	C6068, C6071,		CKSSYF104Z16	
	P CONNECTER	AKM1201	,			
K5201, K5202		AKX9002	RESISTORS			
X5201 (16MF	lz) CERAMIC	ASS1178		R6072 (22/1/16W)	ACN1246	
			R6065, R6073		BCN1067	
	DI 001/1		R6007, R6030,		RAB4CQ220J	
EXTUCOM	_		R6063	H007 I	RS1/16SS1001D	
<u>EMICONDU</u>	<u>JCTORS</u>		R6038, R6039,	B60/10	RS1/16SS2000F	
IC5403		K4S641632H-TC75	110000, 110000,	110043	1101/100020001	
IC5404		S29AL016D70TFI010	R6054		RS1/16SS2201D	
IC5405		SDA6000	R6052		RS1/16SS6200D	
IC5407		TC74LCX541FTS1		R6011, R6046, R6047		
IC5402		TC7SH04FUS1	R6066, R6067	110011, 110040, 110047	RS1/16S###J	
			Other Resistors		RS1/16SS###J	
IC5406		TC7W126FU	Other Hodiotore		1101/1000	
Q5401, Q540		DTA124EUA	OTHERS			
Q5403, Q540	7	DTC124EUA	· · · · · · · · · · · · · · · · · · ·	MHz) CRYSTAL	ASS1191	
D5404		1SS355	A0002 (24.570	WITZ) CHTSTAL	AGGTT9T	
D5401		UDZS12(B)				
D5402		UDZS3R0(B)	[ADC BLOCK]	•		
D5403		UDZS3R9(B)	SEMICONDU(	<u>CTORS</u>		
			IC6201		AD9985KSTZ-110	
OILS AND		0004400	COIL & AND E	III TEDO		
F5402, F5403	EMI FILTER	CCG1162	COILS AND F		CCG1162	
<b>APACITOR</b>			_ ,			
	3, C5453 (10/6.3)	ACG7046	CAPACITORS	<u> </u>		
C5422, C5423	3	CCSSCH200J50	C6205, C6209	_	CKSSYB104K10	
C5404		CKSSYB102K50	C6207, C6210,	C6218	CKSSYB473K16	
C5403		CKSSYB103K16	C6202		CKSSYB822K16	
C5445		CKSSYB104K10	C6201 C6203, C6204,	C6206 C6208	CKSSYB823K10 CKSSYF104Z16	
C5405 C5406	6, C5408, C5410, C5413	CKSSYF104716	00203, 00204,	JULUU, JULUU	JNJJ11 104210	
	3, C5420, C5425, C5427		C6211, C6212,	C6215-C6217	CKSSYF104Z16	
	, C5434, C5435, C5440	CKSSYF104Z16	C6222-C6224		CKSSYF104Z16	
	6, C5449, C5451, C5454					
	3, C5460, C5476	CKSSYF104Z16	RESISTORS			
,				R6223 (47/1/16W)	BCN1067	
<b>ESISTORS</b>			R6202	, - /	RS1/16SS2701F	
R5409, R5432		ACN1251	R6220		RS1/16S0R0J	
	3, R5429, R5434, R5435	BCN1067	Other Resistors		RS1/16SS###J	
	(47/1/16W)	DAD4CO100 I				
R5439, R5457	, no470	RAB4CQ103J				
R5439, R5457 R5460	, n3470	RAB4CQ103J RAB4CQ680J				

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	Mark No.	Description	Part No.	Mark No.	Description	Part No.
	[HDMI BLOCK] SEMICONDUC				3, C6606-C6610 7, C6619, C6621-C6623	CKSSYB102K50 CKSSYF104Z16 CKSSYF104Z16
Α	IC6403 IC6405 IC6404		BR24L02FJ-W PCM1754DBQ SII9021CTU		7, C6629, C6630	CKSSYF104Z16
	Q6416 Q6414		2SA1586 DTA124EUA	RESISTORS	<b>5</b> (68/1/16W)	ACN1251
	Q6415 Q6405		DTC124EUA HN1K02FU	R6611, R661	4, R6618, R6653-R6655 (100/1/16W)	BCN1071
	Q6404 D6408 D6407		RN1902 DAN202U UDZS6R8(B)	R6613, R662 R6648, R665 Other Resisto	1	RAB4CQ101J RS1/16S###J RS1/16SS###J
В	COILS AND FILE		CCG1162	OTHERS X6601 (100M	IHz) CRYSTAL	ASS1194
	O A D A O ITO D O					
	CAPACITORS C6491 (10/6.3)		ACG7046	[IP BLOCK]		
		6405, C6407, C6409		SEMICOND	UCTORS	
	C6419, C6426, C C6434, C6435, C	6428, C6430, C6432 6438, C6440, C6442 6448, C6449, C6454	CCSSCH101J50	IC6801, IC68 IC6803	02	K4S643232H-TC60 PE5504B
	00450 00450 0		000001404450	COILS AND		
		66464, C6466, C6468 66474, C6476, C6478	CCSSCH101J50 CCSSCH101J50 CCSSCH101J50	∆L6801-L6804     CAPACITOF	CHIP BEADS FILTER	BTX1042
	C6462, C6463		CCSSCH120J50	C6801 (10/6		ACG7046
С	C6484		CEHVKW220M6R3	C6863	.0)	CKSSYB102K50
	C6402 C6404 C	6406, C6408, C6410	CKSSVE104716		9, C6811-C6822	CKSSYF104Z16
		6416, C6418, C6420	CKSSYF104Z16	C6824-C683	1, C6833-C6862	CKSSYF104Z16
		6427, C6429, C6431	CKSSYF104Z16	RESISTORS		
		6437, C6439, C6441	CKSSYF104Z16		2 8 (22/1/16W)	ACN1246
	C6443, C6445, C	6447, C6450, C6451	CKSSYF104Z16		4-R6847 (68/1/16W)	ACN1251
	C6455, C6457, C	6458, C6460, C6461	CKSSYF104Z16		4, R6816, R6820, R6821	BCN1067
		6469, C6471, C6473	CKSSYF104Z16	*	5, R6827, R6828 (47/1/16W)	
		6479, C6481, C6483		R6818 (100/	1/16VV)	BCN1071
	C6490		CKSSYF104Z16	R6832		RAB4CQ101J
D	RESISTORS			R6817		RAB4CQ470J
_		6421 (22/1/16W)	ACN1246	Other Resisto	ors	RS1/16SS###J
	R6414	( , , , , , , , ,	RAB4CQ100J			
	R6465		RAB4CQ103J	[MULTI BLO	CK1	
	R6416		RAB4CQ220J	SEMICOND	-	
ı	R6438		RAB4CQ470J	IC7001	<u></u>	PEG121B
	R6401, R6449		RS1/10S0R0J	IC7002		S29JL032H70TFI21
	R6417		RS1/16S220J	IC7004		TC74VHC08FTS1
	Other Resistors		RS1/16SS###J	IC7005		TC74VHC125FTS1
	OTHERS			COILS AND	FILTERS	
_		CONNECTOR(VT)	AKP1294	<b>⚠</b> F7001-F7005		CCG1162
Е	X6401 (28.322M		ASS1192			
				CAPACITOR	<u> </u>	
	IDOEL DLOOK			C7052	1 07000 07004	CKSSYB102K50
	[DSEL BLOCK]			C7006-C702	1, C7023-C7034 0, C7054	CKSSYF104Z16 CKSSYF104Z16
	SEMICONDUC IC6601	<u>IURS</u>	PD6523A	0.000 0.00	o, 0.00.	0.100.1.10.1.10
	IC6602		TC74LCX125FT	RESISTORS		
	IC6603		TC74VHC125FTS1	R7011, R701	3, R7024, R7032, R7036	ACN1246
	COIL & AND FI	TEDE		R7062-R706	(22/1/16W) 4 (47/1/16W)	BCN1067
	COILS AND FILE		ATX1058	R7015, R702	,	RAB4CQ101J
	⚠ F6601-F6603 E		CCG1162	R7016, R701	8, R7070	RAB4CQ103J
F				R7060		RAB4CQ470J
	<b>CAPACITORS</b>			Other Resisto	nrs	RS1/16SS###J
	C6632 (10/6.3)		ACG7046	Calci Hesisi	,,,	1/ 1000πππ0
	C6604		CCSRCH221J50			
į	52		PDP-436SX			
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Mark No. Description	Part No.	Mark No. Description Part No.
•		TH7601 TH05-3H103F
AUDIO ASSY		<u>CAPACITORS</u>
SEMICONDUCTORS		C7608 CEHVKW100M16 A
IC3754	BR24L02FJ-W	C7601 CKSRYB103K50
IC3751	LA4625	C7603-C7607, C7614 CKSSYF104Z16
IC3753	NJW1183GK1	RESISTORS
IC3752	PQ09DZ11	R7626 RS1/16S4701F
Q3751, Q3754, Q3755, Q3757	2SA1586	R7602-R7605 RS1/16SS###J
Q3756, Q3759	2SC4116	Other Resistors RS1/16S###J
Q3758, Q3760	DTC124EUA	
D3751	1SS355	<u>OTHERS</u>
		CN7602 9P D-SUB SOCKET AKP1213
COILS AND FILTERS		7602 SCREW TERMINAL VNE1949
	ATF1206	В
<u>CAPACITORS</u>		TUNER ASSY
C3917, C3918 (1.5/63)	ACH1420	
C3756 (1/25)	BCG1060 CCSRCH101J50	<u>SEMICONDUCTORS</u>
C3765, C3768 ⚠ C3906, C3908, C3914, C3916	CCSRCH101J50	104401
C3901, C3902, C3909, C3910	CCSRCH221J50	2004110
03901, 03902, 03909, 03910	CC3HCH221000	Q4410, Q4410
C3775, C3777, C3788, C3790, C3791	CEHAT100M50	Q4407, Q4408 HN1A01FU
C3799	CEHAT100M50	Q4409 HN1C01FU
C3761, C3764, C3786, C3798	CEHAT101M16	D4403 UDZS8R2(B)
C3766, C3780, C3783-C3785, C3797	CEHAT1R0M50	
C3808, C3812, C3814	CEHAT1R0M50	COILS AND FILTERS
, ,		L4401-L4403 CHIP COIL BTH1119
C3762	CEHAT220M50	L4405, L4406 LCTAW150J2520
C3752, C3753	CEHAT2R2M50	L4407 LCTAW4R7J2520
C3759	CEHAT331M16	L4404 LCTAW8R2J2520
C3757	CEHAT471M25	F4401, F4402 VTF1080
C3755	CEHAT472M25	I
00700	OFLIATADZNASO	SWITCHES AND RELAYS
C3763 C3754, C3805	CEHAT4R7M50	S4401 ASG1100
C3754, C3605 C3767, C3770, C3772-C3774	CFTLA103J50 CFTLA104J50	
C3781, C3782, C3789, C3792-C3795	CFTLA104J50	CAPACITORS
C3806, C3807, C3813	CFTLA104J50	C4404, C4407, C4415, C4429 (10/6.3) ACG7046
2000, 2007, 2001	0	C4424 (3.3/50) ACH1385 D
C3811	CFTLA223J50	C4449 CCSRCH680J50
C3778	CFTLA334J50	C4442 CCSRCJ3R0C50
C3758, C3760, C3796	CKSRYB103K50	C4417, C4418 CCSSCH100D50
C3769, C3815	CKSRYB222K50	0000011101100
C3903, C3911	CKSRYB332K50	
		C4456 CCSSCH181J50 CCSSCH470J50
C3779	CKSRYB822K50	0000011700170
C3816	CKSRYF104Z16	00000150000
C3904, C3912	CKSRYF473Z50	) 00000110110200
RESISTORS		C4409, C4423 CEHVKW100M16
R3901-R3904	RD1/2MMF100J	C4421 CEHVKW101M6R3
R3768-R3770, R3782	RD1/2MMF2R2J	
Other Resistors	RS1/16S###J	C4411, C4413 CKSRYF104Z50
G.1.6. 1.55.515.6	. 10 1, 100	C4403, C4406, C4410, C4430, C4440 CKSSYB102K50
<u>OTHERS</u>		0//00//0//00//00
CN3751 CONNECTOR	B3P-VH	C4444, C4455, C4461 CKSSYB102K50
CN3901 8P TOP POST	B8B-EH	C4408, C4439, C4446 CKSSYB103K16
3772, 3773 SCREW	PMB30P100FNI	C4438, C4454 CKSSYB472K25 C4402, C4405, C4425, C4426, C4432 CKSSYF104Z16
3774, 3775 SCREW	VBB30P100FNI	C4434, C4435, C4447, C4451, C4460 CKSSYF104Z16
KN3751, KN3752 WRAPPING TERMINA	L VNF1084	04404, 04400, 04447, 04401, 04400 010011 104210
		C4465 CKSSYF104Z16
		C4414, C4437, C4445 (10/16) DCH1165
CD ACCV		_
SR ASSY		<u>RESISTORS</u>
<u>SEMICONDUCTORS</u>		R4407-R4409, R4431, R4441, R4443 RS1/16S###J
IC7601	MAX3232CPW	R4446, R4451, R4455-R4457, R4461 RS1/16S###J
Q7608	HN1B04FU	R4462 RS1/16S###J
		PDP-436SXE 53
5	6	7 = 8
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	Mark No. Other Resistors	<u>Description</u>	<u>Part No.</u> RS1/16SS###J	Mark No. Description	Part No.
•	<u>OTHERS</u>			OTHERS CN8401 L-PLUG(3P)	KM200NA3L
Α	CN4401 40P ( X4401 CRYST		AKM1217 ASS1196	VEV ACCV	
	FRONT ASS			KEY ASSY SWITCHES AND RELAYS S8451-S8456	VSG1024
	D7801-D7803 D7804, D7805	ZIORS	UDZS5R1(B) UDZS9R1(B)	CAPACITORS C8451-C8453	CCSRCH101J50
В	COILS AND F L7801, L7802	<u>ILTERS</u>	LCTAW1R0J2520	RESISTORS Other Resistors	RS1/16S###J
	CAPACITORS  C7803, C7804  C7805, C7808, C7801  ⚠ C7839, C7840		CKSRYB103K50 CKSRYB105K10 CKSRYB473K16 CKSSYB102K50	PANEL SENSOR ASSY SEMICONDUCTORS	
	C7802		CKSSYF104Z16	Q8602 TH8601	HN1B04FU TH05-3H103F
	RESISTORS R7801, R7803, R7802, R7863,		RS1/16S75R0F RS1/16SS###J	CAPACITORS C8606, C8607	CKSRYB103K50
С	OTHERS           JA7803         PIN J/           CN7804         40 P O           JA7801         4P MI		AKB1303 AKM1217 AKP1238	RESISTORS R8607 Other Resistors	RS1/16S4701F RS1/16S###J
•	LED ASSY SEMICONDUC	CTORS		SUB POWER ASSY SEMICONDUCTORS IC7501, IC7502 Q7501	M5291FP 2SD1664
D	Q8002, Q8003 Q8004, Q8005 Q8001 D8001, D8002 D8003		DTA143EUA DTC143EUA RN2902 SML-310DT SML-311UT	Q7502 D7502 D7503	2SD1898 D1FL20U(S) RB160M-30
	D8004		SML512BC4T	COILS AND FILTERS  L7501 INDUCTOR  L7503 INDUCTOR	ATH1124 ATH1197
	CAPACITORS C8002-C8007, C C8001, C8008		CCSSCH101J50 CKSSYF104Z16	CAPACITORS  C7505 (47/50)  C7502, C7522 (100/16)	ACH1390 ACH1394
	RESISTORS R8002, R8018 Other Resistors		RS1/16SS###J RS1/16S###J	C7501, C7507 C7510 C7504	CCSRCH221J50 CCSRCH681J50 CCSRCH821J50
E	IR ASSY SEMICONDUC	CTORS		C7520, C7523 C7518 C7521 C7503, C7509 C7515-C7517, C7519, C7524, C7	CEHAT471M10 CEHAT471M6R3 CEHVKW101M6R3 CKSRYB103K50 '525 CKSRYB104K16
	Q8401 D8401		2SA1586 1SS302	C7513	CKSRYF104Z50
	CAPACITORS C8401 (47/6.3) C8402 C8403		ACH1357 CKSRYB103K50 CKSSYB102K50	RESISTORS  R7510, R7517, R7520 (1.20/1/2V R7501 R7513	RS1/10S1R5J RS1/16S1001F
F	C8404		CKSSYF104Z16	R7503 R7514	RS1/16S1101F RS1/16S3301F
	RESISTORS R8401, R8403, Other Resistors	R8404	RS1/16SS###J RS1/16S###J	R7504 Other Resistors	RS1/16S3302F RS1/16S###J
•	54 1	-	PDP-436S	XE 3 ■	4

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Mark No. Description	Part No.	Mark No. Description	Part No.	
		CAPACITORS		
		C3311	CCSRCH470J50	
		C3317	CCSRCH471J50	
OB DIGITAL ASSY		C3315	CKSRYB104K16	
DIGITAL IF BLOCK]		C3304, C3307, C3309	CKSRYB472K50	
SEMICONDUCTORS		C3305, C3310	CKSSYB102K50	
Q3001	DTC124EUA		01/00/15/0/5/0	
		C3301-C3303, C3306, C3308, C3316	CKSSYF104Z16	
COILS AND FILTERS		RESISTORS		
F3001-F3003	ATF1213	Other Resistors	RS1/16SS###J	
RESISTORS		OTHERO		
R3010-R3015, R3024-R3029	RAB4C101J	OTHERS		
R3007	RAB4C470J	X3302 (102.5 MHz) CRYSTAL	ASS1188	
Other Resistors	RS1/16SS###J			
THE DO		[ASTRA BLOCK]		
<u>OTHERS</u>		SEMICONDUCTORS		
CN3002 CONNECTOR	AKM1294	IC3401	PEG122C	
CN3001 50P CONNECTER AU	AKM1346	103401	FLG1220	
		<b>COILS AND FILTERS</b>		
MODULE UCOM BLOCK]		F3401, F3402 EMI FILTER	CCG1162	
EMICONDUCTORS		L3401-L3403	QTL1013	
IC3156	BR24L04FJ-W			
IC3150	M30620FCPGP-U5C	<u>CAPACITORS</u>		
IC3157	M62334FP	C3401, C3402, C3419, C3425	CEHVKW101M6R3	
IC3155	SN74AHC08PW	C3403-C3413, C3417, C3418	CKSSYF104Z16	
IC3152, IC3153	SN74AHC541PW	C3420-C3424, C3426-C3432	CKSSYF104Z16	
.55.52, 155155	5.17 I/ II/ IO   111 W	C3445-C3452	CKSSYF104Z16	
IC3160	TC74VHC123AFTS1	DEGIOTORS		
IC3159	TC7W126FU	RESISTORS		
Q3152	2SC4081	R3402, R3412	RAB4C101J	
Q3151	2SJ461A	R3405-R3407, R3409, R3410	RAB4C220J	
D3158, D3159, D3161	1SS355	R3416, R3417	RAB4C220J	
		R3425	RS1/16S5601F	
D3153	DA204U	Other Resistors	RS1/16SS###J	
D3151, D3152, D3154, D3155, D3162	DAN202U			
CAPACITORS		[ADDRESS BLOCK]		
C3164, C3178, C3179	CCSSCH101J50	SEMICONDUCTORS		
C3151, C3169	CEHVKW470M6R3	D3501, D3502	DAN202U	
C3167	CKSRYB103K50	50001, 50002	D/ 11 42 02 0	
C3159, C3171, C3172	CKSRYB105K10	CAPACITORS		
C3154	CKSSYB102K50	C3501-C3504	CKSSYB102K50	
		3337. 3000+	3.100 I D 1021100	
C3152, C3153, C3155-C3158	CKSSYF104Z16	RESISTORS		
C3162, C3163, C3165, C3166, C3168	CKSSYF104Z16	R3521, R3522, R3525	RAB4C101J	
C3170, C3176, C3177	CKSSYF104Z16	R3524	RAB4C222J	
ESISTORS		R3519, R3520	RAB4C472J	
RESISTORS	DADAGASA	Other Resistors	RS1/16SS###J	
R3160, R3171, R3176	RAB4C101J			
R3174	RAB4C103J	<u>OTHERS</u>		
Other Resistors	RS1/16SS###J	CN3501-CN3504, CN3506	AKM1217	
OTHERS		40P CONNECTER		
CN3151 CONNECTOR	AKM1289	CN3505 CONNECTOR	CKS4914	
X3151 (16 MHz) CERAMIC	AKM1289 ASS1178			
ACIOI (TO WITZ) OLI MIVIIO	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	IDICITAL DD CON DLOCKI		
		[DIGITAL DD CON BLOCK]		
PANEL FLASH BLOCK]		SEMICONDUCTORS	DAGODOOMED	
EMICONDUCTORS 1		IC3601	BA80BC0WFP DTC124EUA	
IC3301	MBM29PL160TD75TN	Q3605	DIGIZ4EUA	
IC3304	PST3610UR	CADACITODS		
IC3302, IC3305	PST3628UR	<u>CAPACITORS</u>	AOLI4004	
IC3303	SN74AHC08PW	C3612	ACH1394	
Q3302	HN1C01FU	C3611	CKSQYB105K16	
		C3613 C3609	CKSRYB103K50 CKSSYF104Z16	
Q3301	RN1901	00000	51.05 11 104Z10	
	DD	P-436SXE		55
	PD	1 -+000/L		

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Mark No.	Description	Part No.		Mark No.	Description	Part No.
RESISTORS	<u> </u>			43 SCAN	NA ASSY	
R3611		RAB4C101J			DUCTORS	
R3624, R3626		RS1/16S###J RS1/16SS###J		IC2701-IC		SN755870PZT
Other Resistors		H51/1655###J		IC2707		TC7SH08FUS1
<b>OTHERS</b>				D2701-D2	705	1SS355
U3601 DD CON	N UNIT	AXY1118		CAPACITO	ORS	
					711,C2721 (0.1U/250V)	ACG1088
					741,C2751 (0.1U/250V)	ACG1088
43 ADDRESS	SASSY			C2710,C2 C2760	720,C2730,C2740,C2750	CCSRCH181J50 CCSRCH181J50
[43 ADR LOGIC					709,C2718,C2719	CCSRCH331J50
SEMICONDUC	-					
IC1501		PEE002A			729,C2738,C2739	CCSRCH331J50
					749,C2758,C2759 707,C2715-C2717	CCSRCH331J50 CCSRCH390J50
COILS AND FI		OTI 1010			727,C2735-C2737	CCSRCH390J50
L1504 CHIP SC	LIDD INDUCTOR	QTL1013			747,C2755-C2757	CCSRCH390J50
CAPACITORS				C2703,C2 C2753.C2	713,C2723,C2733,C2743	CKSRYB105K6R3 CKSRYB105K6R3
C1501,C1502		CKSRYB105K6R3	3	02/55,02	701	CNShibioskons
C1509,C1510		CKSSYB102K50		RESISTO	RS	
C1503-C1507,C1	1552-C1555	CKSSYF104Z16			710,R2713,R2716,R2719	RAB4C221J
RESISTORS				R2722	·	RAB4C221J
R1505-R1509		RS1/16SS1000F		Other Res	ISTORS	RS1/16S###J
R1530,R1531		RS1/16S0R0J		OTHERS		
Other Resistors		RS1/16SS###J		CN2702	PH CONNECTOR 3P	AKM1274
OTHERS				CN2701	13P BRIDGE CONNECTOR	AKP1261
CN1501 40P CO	ONNECTOR	AKM1217				
CN1502 PH CC	NNECTOR 4P	AKM1290				
				43 SCAN	I B ASSY	
[43 ADR RESO	NANCE BLOCK]			<b>SEMICON</b>	<u>IDUCTORS</u>	
SEMICONDUC	-			IC2801-IC	2806	SN755870PZT
IC1601,IC1602		TND307TD		IC2807 D2801-D2	805	TC7SH08FUS1 1SS355
Q1612		2SA1163		D2001-D2	003	100000
Q1607,Q1609 Q1601,Q1610		HAT1110R HAT3021R		CAPACITO	<u>ORS</u>	
Q1606,Q1608,Q	1611	QSZ2			811,C2821 (0.1U/250V)	ACG1088
					841,C2851 (0.1U/250V) 820,C2830,C2840,C2850	ACG1088 CCSRCH181J50
Q1615		RN1901 1SS302		C2810,C2	020,02030,02040,02030	CCSRCH181J50
D1612 D1625.D1628		1SS355		C2808,C2	809,C2818,C2819	CCSRCH331J50
D1602,D1603,D1	1605,D1606	EC10UA20		C0000 C0	000 00000 00000	CCSRCH331J50
D1607-D1610		EP05FA20			829,C2838,C2839 849,C2858,C2859	CCSRCH331J50
D1601,D1611,D1	1620 D1622	UDZS15(B)			807,C2815-C2817	CCSRCH390J50
21001,21011,21	1020,51022	052010(5)			827,C2835-C2837	CCSRCH390J50
COILS AND FI	<u>LTERS</u>			C2845-C2	847,C2855-C2857	CCSRCH390J50
L1601,L1604 IN	IDUCTOR	ATH1135		C2803,C2	813,C2823,C2833,C2843	CKSRYB105K6R3
CAPACITORS				C2853,C2	861	CKSRYB105K6R3
C1609 (0.1U/100	V)	ACG1098		RESISTO	DC .	
C1620,C1621 (30		ACG1105			<b>ns</b> 808,R2811,R2814,R2817	RAB4C221J
C1601,C1614 (0.	,	ACG1124		R2820	000,112011,112014,112017	RAB4C221J
C1602,C1604 (56 C1613	6U/80V)	ACH1422 CKSRYB104K25		Other Res	istors	RS1/16S###J
01010		JNJ1111104N25		OTHERS		
C1619		CKSYB105K16		-	PH CONNECTOR 3P	AKM1274
DECICTORS					13P BRIDGE CONNECTOR	
RESISTORS R1601,R1617		RS1/16S4702F				
Other Resistors		RS1/16S###J				
Other Resistors		RS1/16SS###J		43 Y DP	IVE ASSY	
				OTHERS		
					IVE RADIATION SHEET	AEH1092
					IVE HEATSINK X	ANH1637
56			PDP-436SXE			
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Mark No. Description	Part No.	Mark No. Description	Part No.	
1002 DRIVE HEATSINK K	ANH1639	D1282	UDZS16(B)	
1001 SCREW	BMZ30P080FTC	D1251	UDZS5R6(B)	
1001 0011211	DIVI2001 0001 10	51201	05200110(5)	
X LOGIC BLOCK]		COILS AND FILTERS		
		L1204,L1211 INDUCTOR	ATH1186	
SEMICONDUCTORS	TOTAL OTE 44 FT	F1204,E1211 INDUCTOR	CTF1449	
IC1001	TC74ACT541FT	L1201 INDOCTOR L1201,L1205,L1231	LFEA100J	
IC1002	TC74VHC00FTS1	L1201,L1203,L1231	LI LA 1003	
CAPACITORS		<u>CAPACITORS</u>		
C1003	CEHAT470M16	C1214-C1217	ACE1178	
C1001,C1002	CKSRYB104K16	C1297,C1298 (3300P/630V)	ACG1129	
		C1212,C1213	ACH1424	
RESISTORS		C1231	CEHAT101M10	
R1001,R1003	RAB4C470J	C1206	CEHAT101M25	
R1008,R1009	RAB4C472J			
Other Resistors	RS1/16S###J			
OTHERS				
CN1001 18P FFC CONNECTOR	VKN1310	C1283	CEHAT2R2M2E	
CN 1001 18P FFC CONNECTOR	VKN1310	C1208	CEHAT470M16	
		C1222,C1272	CEHAT470M25	
A DECUNANCE DI COMI		C1221	CKSRYB105K6R3	
X RESONANCE BLOCK]		C1204,C1207,C1223,C1251,C1253	CKSRYF104Z50	
<u>SEMICONDUCTORS</u>		_		
IC1101	AXF1145	C1273	CKSRYF104Z50	
IC1141	BA10393F	C1220	CKSYB105K25	
Q1141	2SC4116			
D1101-D1105	D1FL40	<u>RESISTORS</u>		
		R1204	ACN1166	
OILS AND FILTERS		R1213	ACN1168	
L1101,L1102 CHOKE COIL	ATH1155	R1276,R1277	RS3LMF470J	
L1103-L1106 CHOKE COIL	ATH1193	Other Resistors	RS1/16S###J	
CAPACITORS		OTHERS		
C1106-C1110	ACE1178	KN1201-KN1206 GROUND PLATE	ANK-142	
C1101,C1112,C1113 (0.22U/250V)	ACG1112	KN1208-KN1211 GROUND PLATE	ANK-142	
C1121 (470P/630V)	ACG1126	CN1202 6P TOP POST	B6B-EH	
C1167,C1168 (3300P/630V)	ACG1129	CN1201 8P TOP POST	B8B-EH	
C1105	CCG1186	GR1201 GF 101 1 001	DOD EIT	
01111 01110 01111 01115	OKODVD404K40	IV D D OON DI OOKI		
C1141,C1142,C1144,C1145	CKSRYB104K16	[X D-D CON BLOCK]		
C1102,C1146	CKSRYB105K6R3	<u>SEMICONDUCTORS</u>		
C1103	CKSYB105K25	IC1321	PS2701A-1(L)	
DECICTORS.		IC1326	TA76431FR	
RESISTORS		Q1324	2SA1037K	
R1101	ACN1168	Q1302	2SC4081	
R1142,R1146	RS1/10S1003F	Q1301,Q1323	2SD1898	
R1122,R1123	RS1/10S104J			
R1148,R1150	RS1/16S5601F	Q1321,Q1325,Q1351	HN1C01FU	
R1151,R1155	RS1/16S6801F	D1303,D1324	1SS301	
B4400 B4404	D0014147-1001	D1304,D1307,D1325,D1328	1SS355	
R1106,R1121	RS2MMF100J	D1301,D1302,D1326,D1327	CRH01	
Other Resistors	RS1/16S###J	D1321	D1FK60	
		D1329,D1330	UDZS4R7(B)	
X SUS BLOCK]		D1306,D1323,D1331	UDZS5R1(B)	
SEMICONDUCTORS		,,	( )	
IC1202	AXF1143	<b>COILS AND FILTERS</b>		
IC1201	MM1565AF	T1301 SWITCHING TRANS.	ATK1159	
IC1252	PS9117	↑T1321 SWITCHING TRANS.	ATK1160	
IC1251	TND301S			
IC1271	TND307TD	CAPACITORS		
	···= ••· •	C1325	ACH1428	
Q1251	2SC2412K	C1325	CEHAT100M50	
Q1272	2SK3325-Z	C1326 C1302,C1321	CEHAT100M50 CEHAT101M25	
	1SS302	C1301,C1303,C1323	CKSRYB103K50	
D1281		C1304,C1306,C1327	CKSRYB104K16	
	188355			
D1281	1SS355 CRH01	C1304,C1300,C1327	OKOKI BIOTKIO	
D1281 D1201		C1307,C1324	CKSYB105K25	
D1281 D1201	CRH01			57

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	Mark No. Description	Part No.	Mark No. Description	Part No.
	RESISTORS		Q2141 D2101-D2105	2SC4081 D1FL40
۸	R1337	RAB4C472J	COILS AND FILTERS	
Α	R1321,R1322,R1326,R1339 VR1321	RS1/10S224J CCP1392	L2101,L2102 CHOKE COIL	ATH1155
	Other Resistors	RS1/16S###J	L2103-L2106 CHOKE COIL	ATH1193
	SUS CLAMP 1 ASSY		CAPACITORS	
	SEMICONDUCTORS		C2131-C2134,C2136	ACE1178
	D1631	DF20L60U	C2103,C2107,C2108 (0.22UF/250V) C2104,C2106 (470P/630V)	ACG1112 ACG1126
	CAPACITORS		C2109-C2112 (3300P/630V)	ACG1129
	C1632	ACE1179	C2101,C2145	CKSRYB105K6R3
	OTHERS		C2141,C2143,C2144	CKSSYB104K10
В	KN1632 GROUND PLATE	ANK-142	C2102	CKSYB105K25
	CN1631 3P TOP POST	B3B-EH		
	KN1631 WRAPPING TERMINAL SUS CLAMP 2 ASSY	VNF1084	DECICTORS	
	SEMICONDUCTORS		RESISTORS R2101	ACN1174
_	D1641	DF20L60U	R2108	ACN1241
	O A DA OITO DO		R2142,R2143 R2103,R2107	RS1/10S1003F RS1/10S104J
	CAPACITORS C1642	ACE1179	R2146,R2149	RS1/16S5601F
		7.020	R2147,R2151	RS1/16S6801F
	OTHERS KN1642 GROUND PLATE	ANK-142	R2102	RS2MMF100J
С	CN1641 3P TOP POST	B3B-EH	Other Resistors	RS1/16S###J
	KN1641 WRAPPING TERMINAL	VNF1084		
			[Y SUS BLOCK]	
	40 V DDIVE 400V		SEMICONDUCTORS IC2252,IC2253	AXF1144
	43 Y DRIVE ASSY		IC2350	MM1565AF
	OTHERS  2001 DRIVE RADIATION SHEET	AEH1092	IC2250 IC2231,IC2251	PS9117 TND301S
	2001 CONDUCTIVE PLATEY	ANG2832	IC2231,IC2231 IC2203,IC2221	TND307TD
	2001 DRIVE HEATSINK Y 2002 DRIVE HEATSINK K	ANH1638 ANH1639	00000	2SA2142
	2002 SCREW	BMZ30P080FTC	Q2202 Q2250	2SC4081
D	2001 SCREW	PMB30P060FTC	Q2290 Q2221	2SK3050
	2001 COMEV	T WILDOOF GOOD TO	Q2221 Q2280,Q2281	2SK3325-Z 2SK3399
	[Y LOGIC BLOCK]		Doogo	100001
	SEMICONDUCTORS		D2233 D2213	1SS301 1SS302
	IC2002	TC74ACT540FT	D2203,D2212,D2351	1SS355
	IC2001,IC2004 IC2003,IC2005	TC74ACT541FT TC74VHC08FTS1	D2202,D2204,D2205,D2234 D2251,D2252,D2272	CRH01 CRH01
	,		D0011	D4EKeo
	CAPACITORS C2003	CEHAT470M16	D2211 D2232,D2271	D1FK60 UDZS16(B)
Е	C2001,C2002,C2004-C2006	CKSSYB104K10	D2250	UDZS5R6(B)
	RESISTORS		COILS AND FILTERS	
	R2003,R2006	RAB4C101J	L2353 INDUCTOR	ATH1186
	R2001,R2002,R2017,R2021	RAB4C470J	F2301-F2320 FERRITE BEAD F2352 INDUCTOR	ATX1055 CTF1449
	R2004,R2005,R2019,R2020 Other Resistors	RAB4C472J RS1/16S###J	L2350,L2351,L2354	LFEA100J
•	OTHERO		CAPACITORS	
	OTHERS CN2001 40P CONNECTOR	AKM1217	C2330,C2335,C2341,C2342	ACE1178
	514251 151 551114251511	70001217	C2231 (0.33U/100V) C2271,C2272 (0.1U/100V)	ACG1118 ACG1124
	[Y RESONANCE BLOCK]		C2336,C2337	ACH1424
F	SEMICONDUCTORS		C2270	ACH1426
	IC2101	AXF1145	C2226	ACH1427
	IC2141	BA10393F	C2203-C2206	CCG1186
	58	PDP-436S		
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Mark No. Description	Part No.	Mark No. Description	Part No.	
C2207	CCSRCH102J50	Q2531	2SC3425	
C2355,C2369	CEHAT101M10	Q2532	2SD2568	
C2357	CEHAT470M16	Q2511	HN1C01FU	
02007	021 II 11 17 011110	D2534	1SS355	Α
C2208,C2221,C2339,C2364	CEHAT470M25	D2522,D2524	CRH01	^
C2356	CKSRYB104K16	DEOLE, DEOL4	0111101	
C2353,C2358,C2359	CKSRYB105K6R3	D2523,D2532	D1FK60	
C2363		•	UDZS33(B)	
	CKSRYB473K16	D2533	( )	
C2209,C2222,C2230,C2252	CKSRYF104Z50	D2536	UDZS4R7(B)	
00000	01/001/71/01/10	D2530,D2531	UDZS8R2(B)	
C2250	CKSSYB104K10			_
C2354,C2360	CKSYB105K25	COILS AND FILTERS		
		⚠ T2503 CONVERTER TRANS.	ATK1158	
<u>RESISTORS</u>		L2501	LFEA101J	
R2352	ACN1166			
R2304	ACN1174			
R2360,R2362	ACN1178			В
R2210,R2211	RS1/10S151J			
R2290	RS1MMF331J	CAPACITORS		
R2222,R2224	RS2MMF5R6J		ACE1177	
R2203	RS3LMF821J	C2531	ACE1177	
R2277-R2279,R2281	RS3LMF8R2J	C2516	ACH1360	
•		C2532	ACH1425	
Other Resistors	RS1/16S###J	C2513	ACH1428	
OTHERO		C2520	CEHAT101M16	
<u>OTHERS</u>				
KN2350,KN2352 GROUND PLATE	ANK-142	C2515	CEHAT101M25	
KN2354 GROUND PLATE	ANK-142	C2528	CEHAT221M16	
KN2356,KN2357 GROUND PLATE	ANK-142	C2514,C2525,C2534	CKSRYB104K16	
KN2359-KN2363 GROUND PLATE	ANK-142	C2521,C2533,C2535	CKSRYB104K25	_
CN2351,CN2352 KR CONNECTOR		, , , , , , , , , , , , , , , , , , , ,		С
		RESISTORS		
CN2350 9P TOP POST	B9B-EH	R2553	DAD4C4701	
0142000 01 101 1 001	BOB EIT		RAB4C472J	
		R2558	RS1/10S0R0J	
IV CCAN DI OCKI		R2533,R2556	RS1/10S104J	
[Y SCAN BLOCK]		R2534,R2535,R2541	RS1/10S2203F	
<u>SEMICONDUCTORS</u>		R2548	RS1/16S1003F	
IC2403,IC2405,IC2406,IC2408	PS9117			
IC2401	PS9851-2(P)	R2550	RS1/16S1802F	
IC2409,IC2410	PST3638ÙR	R2549,R2557	RS1/16S4702F	
IC2402,IC2407	TC74ACT540FT	R2542,R2545	RS1/16S5601F	
D2402	CRH01	VR2503	CCP1390	
<i>BL</i> -10 <i>L</i>	0111101	VR2531	CCP1392	D
COILS AND FILTERS				D
· · · · · · · · · · · · · · · · · · ·		Other Resistors	RS1/16S###J	
F2401-F2404 CHIP FERRITE BEAD		Cirio Ficolotoro	1101/100111110	
L2401-L2403	LFEA100J			
		IV D D CON DI OCKI		
<u>CAPACITORS</u>		[Y D-D CON BLOCK]		
C2404,C2411	ACH1406	<u>SEMICONDUCTORS</u>		I
C2401,C2407,C2414	CEHAT101M10	IC2602	BA10358F	_
C2416,C2417	CKSRYB102K50	IC2601,IC2603,IC2606	PS2701A-1(L)	
C2402,C2403,C2405,C2408-C2410	CKSSYB104K10	IC2605,IC2614	TA76431FR	
C2412	CKSSYB104K10	Q2610	2SA1163	
OLT IL	01/04/10104//10	Q2601,Q2609	2SA1576A	
DECICTORS		<u></u>		
RESISTORS		Q2608	2SA2005	Ε
R2407,R2421	RAB4C220J	Q2607	2SA2005 2SC2713	
Other Resistors	RS1/16S###J			
		Q2612	2SC4081	
OTHERS		Q2605,Q2606	2SD1898	
CN2401,CN2402	AKM1200	Q2603,Q2604,Q2611	DTC143EUA	
15P BRIDGE CONNECTOR	AKM1200			
.c. Simbal conviction	/ II III 1 = 00	Q2602,Q2613,Q2641	HN1C01FU	
		D2611	1SS226	
IVVII D D CON DI COM		D2604,D2612	1SS301	
[Y VH D-D CON BLOCK]		D2602,D2613-D2615	1SS355	
<u>SEMICONDUCTORS</u>		D2601,D2603,D2609,D2618	CRH01	
IC2531	BA10358F			
IC2502	MIP2E3DMC	D2610	D1FL40	_
IC2503	PS2701A-1(L)	D2617	UDZS15(B)	F
IC2534,IC2535	TA76431FR	D2607,D2608	UDZS4R7(B)	
Q2533	2SC2412K	D2605	UDZS5R1(B)	
Q2000	LOOLTILIN	D2616	UDZS5R6(B)	
			ODESSINO(D)	EO
		PDP-436SXE		59
5 =	6	7	8	

1 2 3 4

Mark No. Description Part No.

### COILS AND FILTERS

⚠ T2602 CONVERTER TRANS. ATK1156
A ⚠ T2601 SWITCHING TRANS. ATK1161

### **CAPACITORS**

C2608,C2610 CEHAT101M25
C2613 CEHAT221M25
C2606 CEHAT221M6R3
C2607 CKSRYB102K50
C2605,C2612,C2614 CKSRYB103K50

C2601,C2604,C2609 CKSRYB104K16 C2602,C2615 CKSRYB105K6R3 C2603 CKSRYF104Z50 C2611 CKSSYB104K10

### **RESISTORS**

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R2613 RAB4C472J R2641,R2642 RS1/10S224J R2629 RS1/16S1002F R2625,R2626 RS1/16S1501F R2608,R2612,R2630,R2632,R2635 RS1/16S4701F

 R2618
 RS1/16S4702F

 R2636
 RS1/16S5601F

 R2652
 RS1/16S6801F

 R2627
 RS3LMF151J

 VR2601
 CCP1390

Other Resistors RS1/16S###J

### POWER SUPPLY UNIT

POWER SUPPLY Unit has no service part.

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# 6. ADJUSTMENT



1. At shipment, the unit is adjusted to its best conditions. Normally, it is not necessary to readjust even if an assembly is replaced. If the adjustment is shifted or if it becomes necessary to readjust because of part replacement, etc., perform the adjustment as described below.

2. Any value changed in Service/Factory mode will be stored in memory as soon as it is changed. Before readjustment, take note of the original values for reference in case you need to restore the original settings.

3. Use a stable AC power supply.

DOMED OLIDBIA VILLE	
POWER SUPPLY Unit	No adjustment required
OB DIGITAL Assy	Writing of backup data is required. Refer to the "7.1.5 BACKUP WHEN THE PANEL UNIT IS ADJUSTED."
43 X DRIVE Assy	No adjustment required
43 Y DRIVE Assy	No adjustment required
Service Panel	Refer to the "6.6 METHOD FOR REPLACING THE SERVICE PANEL ASSY."
OBE MAIN assy	No adjustment required
R06 D-TUNER Assy	No adjustment required
Other assemblies	No adjustment required
■ When any part in the follow POWER SUPPLY Unit	ving assemblies is replaced  The assembly must be replaced as a unit, and no part replacement is allowed.
OB DIGITAL Assy	No adjustment required
43 X DRIVE Assy	No adjustment required
43 Y DRIVE Assy	No adjustment required
OBE MAIN Assy	Replacement of components IC4804, IC4806, IC5202, IC520 IC6003 and IC6201 on the circuitboard can cause malfunction and /or failure. If replacement is necessary, the assembly

R06 D-TUNER Assy

The assembly must be replaced as a unit, and no part replacement is allowed.

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Other assemblies No adjustment required

must be replaced.

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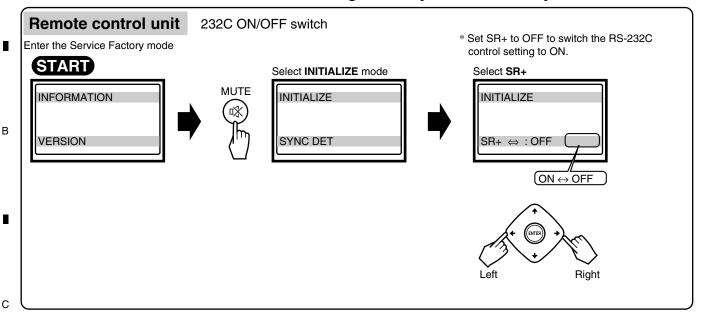
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### 6.2 USING RS-232C COMMANDS

- The circuitry for the PDP-436SXE/RXE is as shown in the figure below, and activation/deactivation (ON/OFF) of RS-232C control is selectable. As OFF is selected at shipment, to enable RS-232C control when servicing, it is necessary to switch the setting to ON.
  - How to switch the RS-232C control setting to ON by Service Factory Mode



# ● How to switch the RS-232C control setting to ON by Remote Control unit [To Switch RS-232C control to ON ]

Hold the **VOLUME** ⊿+ or ⊿− key on the remote control unit pressed for 3-10 seconds during Standby mode.

Then within 3 seconds after the key is released, hold the **2-screen** key on the remote control unit pressed for 3-10 seconds. Then within 3 seconds after the key is released, use the **SET** key on the remote control unit to set to RS-232C. The path is switched to that for RS-232C control. The baud rate becomes 9,600 bps.

### [ To Switch RS-232C control to OFF ]

D Hold the **VOLUME** ⊿+ or ⊿- key on the remote control unit pressed for 3-10 seconds during Standby mode. Then within 3 seconds after the key is released, hold the **2-screen** ♠ key on the remote control unit pressed for 3-10 seconds. Then within 3 seconds after the key is released, use the **HOME MUNU** key on the remote control unit to set to RS-232C. The path is switched to that for SR+, and RS-232C control becomes OFF.

[ TIPS ]

\* During IF Standby (once 10 seconds or more has passed after the LED goes dark during communication), the first keypress may not be accepted. In such a case, for a key operation, first press any key other than the POWER key and CH keys, then the desired key.

Note: For switching the RS-232C control setting, use the remote control unit supplied with the PDP-436XDE, etc., because the 2-Screen key (for multiscreen) is not provided with the remote control unit supplied with the PDP-436SXE/RXE.

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To operate in Service Factory mode, use the supplied remote control unit.

### ■ How to enter Service Factory Mode

While in Standby mode, follow the below procedure with the remote control to enter Service Factory mode.

- 1. Press the [DISPLAY] key.
- 2. 3 second counter will start.
- 3. After 3 second, press [ LEFT ] key.
  (If no operation is done within 10 seconds, the Service Factory routine is cleared, and the standby mode is returned.)
- 4. 5 second counter will start. The Service Factory is up and ready.
- 5. Before 5 second counter ends, press [ UP ] key.
- 6. Before 5 second counter ends, press [ LEFT ] key.
- 7. Before 5 second counter ends, press [ RIGHT ] key.
- 8. Before 5 second counter ends, press [ POWER ] key.
- 9. If the procedure is correct within the counting time, the Service Factory Mode starts.
- \* During step 3 to 8, if other opeartion is done, the Service Factory routine is cleared.
- \* If the counting time is over up, the normal standby mode is returned.

### Operation in Service Factory Mode

### • Functions whose settings are set to OFF

The settings for the following functions are set to OFF when Service Factory mode is entered (including when the "FAY" command is received):

- FREEZE
- Mask Control
- ORBITER (Operating at center value)

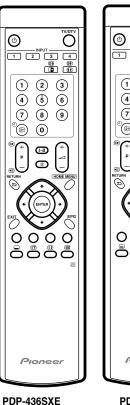
### User data

User data will be treated as follows:

- User data on picture- and audio-quality adjustments are not reflected, and factory-preset data are output (user data will be
  retained in memory). When the unit enters Factory mode, the current audio-quality adjustment data will still be retained in
  memory.
- As to data on various settings, user data will be applied to the items that are associated with signal format change (screen size switching, etc.).
- Data on screen (i.e., screen position, and not including data on screen size) are reset to the default values (data stored in memory will be retained). Screen size will be retained.

### ■ Remote control codes in Service Factory mode

SR Function	Main Function	Remarks
Muting	Switching the main items	Shifting to the next main item (top)
DOWN Switching the subtitled items		Shifting downward to the next subtitled item
UP Switching the subtitled items		Shifting upward to the next upper layer
LEFT Increasing the adjustment value		Increasing the adjustment value
RIGHT	Decreasing the adjustment value	Decreasing the adjustment value
SET	Switching layers	Shifting downward or upward to the next lower or upper layer
INPUT	Selecting input	Shifting the input to the next function
INPUTxx	Selecting input	Switching the input to xx
CH+	Increasing the channel number	Advancing a preset channel (effective when Function is set to TV)
CH-	Decreasing the channel number	Turning a preset channel backward (effective when Function is set to TV)
Numeric keys	Function: TV	Function: TV (previously selected channel number is selected)
POWER	Power OFF	Turning the power off
FACTORY	Factory OFF	Turning Service Factory mode off
MENU	Menu ON	Turning Service Factory mode off and Menu mode on



PDP-436SXE (AXD1515) PDP-436RXE (AXD1516)

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# I INFORMATION mode 1. VERSION(1) 2. VERSION(2) 3. MAIN NG 4. TEMPERATURE 5. HDMI SIGNAL INFO1 6. HDMI SIGNAL INFO2 7. TUNER SIGNAL INFO



### **6 INITIALIZE mode**

3

1.SYNC DET
2.SG MODE
3.SG PATTERN
4.SIDE MASK LEVEL
5.FINAL SETUP
6.SR+
7.UART SELECT
8.HDMI INTR POSITION





### **② FUNCTION CHECK mode**

1.FAN 2.DTB ANT VOLT (PDP-436SXE Only)



1.PEAK LIMITER 2.EDID WRITE MODE 3.CH PRESET





### **③ COMMON ADJ. mode**

1. RGB 1



### **4 PANEL FACTORY mode**

1.PANEL INFORMATION
2.PANEL WORKS
3.POWER DOWN
4.SHUT DOWN
5.PANEL-1 ADJ
6.PANEL-2 ADJ
7.PANEL REVICE
8.ETC.
9.MASK SETUP

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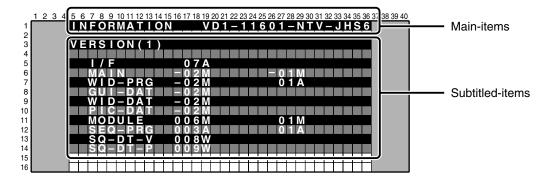
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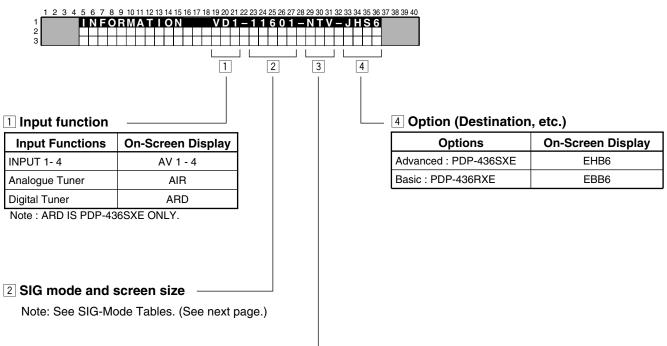
3

### **■** Indications in Service Factory mode



### **■** Main-item indications

Four parameters are displayed:



**3** Color system and signal type

Color System a	and Signal Type	On-Screen Display	Color System a	and Signal Type	On-Screen Display
NTSC		NTV	NTSC		NTS
PAL		PLV	PAL		PLS
PAL N		PNV	PAL N		PNS
PAL M	Composite input	PMV	PAL M	S-connector input	PMS
SECAM		SCV	SECAM		SCS
4.43NTSC		4NV	4.43NTSC		4NS
BLACK/WHITE		BWV	BLACK/WHITE		BWS
Y/CB/CR		CBR	RGB		RGB
Y/PB/PR		PBR	Digital video signal		DIG

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### • SIG-Mode Table

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The signal mode is displayed in four charecters:

1st and 2nd charecters: Resolutin of the input signal (numerics for the video signals, and alphabetics for the PC signals)

**3rd and 4th charecters**: Grouping of the V frequencies (refresh rate)

**5th charecter** : Selection of the screen size by the user is displayed.

### SIG-Mode table for video signals (resolutions and V frequencies)

1st and 2nd	3rd and 4th	Signal Type	Fv (Hz)	Fh (kHz)
10	50	SDTV*625i	50.000	15.625
10	60	SDTV*525i	60.000	15.750
12	60	SDTV*525i (PAL60)	60.000	15.750
20	50	SDTV*625p	50.000	31.250
20	60	SDTV*525p	60.000	31.500
00	50	HDTV*1125i	50.000	28.125
30	60	HDTV*1125i	60.000	33.750
40	50	HDTV*750p	50.000	37.500
40	60	HDTV*750p	60.000	45.000
50	24	HDTV*1125p	24.000	27.000

### Selection of the screen size by the user is displayed.

5th	Description on GUI
1	4:3
2	FULL(FULL1)
3	ZOOM
4	CINEMA
5	WIDE
6	FULL 14:9
7	CINEMA 14:9
8	FULL2

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### **■** Factory Menus

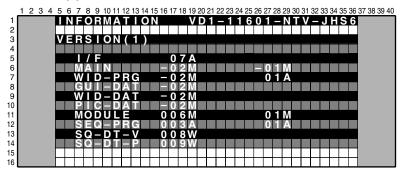
### 1) INFORMATION mode

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### Operation items

No.	Function / Display	Content	RS-232C
1	VERSION (1)	The flash memory versions for each device are displayed. (common part)	QS1
2	VERSION (2)	The flash memory versions for each device are displayed. (individual part)	QS6
3	MAIN NG	The shutdown detected on Main u-com and its time of occurrence are displayed.	QNG
4	TEMPERATURE	Information of temperature and fan status on the set are displayed.	QMT
5	HDMI SIGNAL INFO 1	The file information of LIDAM envise are displayed	-
6	HDMI SIGNAL INFO 2	The file information of HDMI series are displayed.	-
7	TUNER SIGNAL INFO	The signal information on TUNER is displayed.	-

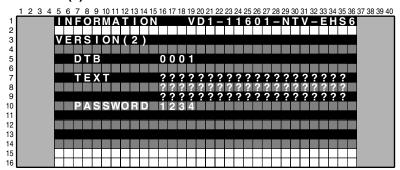
### 1. VERSION (1)



Flash memory on Device	On-Screen Display
IF microcomputer	I/F
Main microcomputer	MAIN
Program for CARRERA-MANTA	WID-PRG
GUI data for CARRERA-MANTA	GUI-DAT
Enhanced data for CARRERA-MANTA.	WID-DAT
Picture Quality data forCARRERA-MANTA	PIC-DAT
Module microcomputer(for the PDP)	MODULE
Program for ASTRA-MANTA(for the PDP)	SEQ-PRG
Sequence data for ASTRA-MANTA Video	SQ-DT-V
Sequence data for ASTRA-MANTA PC	SQ-DT-P

### 2. VERSION (2)

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Device	On - Screen Display	Version Display	Remarks
DTB Software Version	DTB	4 character	PDP-436SXE only
Teletext ucom Software Version	TEXT	60 character	20 character x 3
User Password	PASSWORD	4 character	

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### Media Receiver NG information

OSD: MAIN	OSD: SUB	Cause of Shutdown		
MODULE		Abnormality in Module microcomputer communication		
MA-SRL		Abnormality in 3-wire Serial Communication of the Main microcomputer.		
	IF	Communication failure of IF microcomputer		
	MULTI1	MANTA communication failure(MULIT1)		
	I/P	MANTA communication failure(I/P)		
	D-SEL	IANTA communication failure(D-SEL)		
MA-IIC		Abnormality in Main microcomputer IIC communication		
	FE1	Analog Tuner 1 (Front End 1)		
	MPX	MPX		
	AV-SW	AV Switch		
	RGB-SW	RGB Switch		
	M-VDEC	Main VDEC		
	ADC	AD/PLL		
	HDMI	НОМІ		
	TX-COM	M2 Communication		
	TX-BSY	M2 Busy		
	MA-EEP	64k EEPROM		
MAIN		Abnormality in Main microcomputer communication		
FAN		Fan stopped		
TEMP2		Abnormally high temperature		
DTUNER (*)		Failure of the Digital Tuner		
	PS/RST	Failure in DTB Starting		
	RETRY	DTB communication failure		
M-DCDC		Abnormality in ASIC power line (DC-DC)		

\*: PDP-436SXE only

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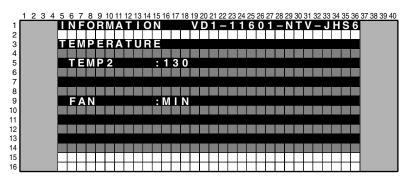
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This displays the internal set temperature and fan rotating state.

**TEMP2**: The value read from the temperature sensor is displayed in the range of 000-255. Sensor Temperature (°C) =  $-0.57 \times TEMP2 + 120.33$  (When the sensor temperature exceeds over 60°C, SD process stats.)

**FAN**: The value of the Fan rotating state is displayed. STOP: stopped, MIN: slow speed, MAX: high speed

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### 6. HDMI SIGNAL INFO

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

INFORMATION VD1-11601-NTV-JHS6

HDMI SIGNAL INFO 1

Ox60 - 4E:00 Ox68 - 45:00

-47:00

-50:00 -47:00

-48:00

-55:00 -84:00

-86:00

0x68 - 2A:00

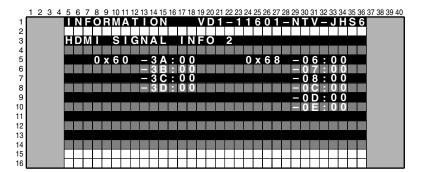
-87:00

-88:00

-88:00

-88:00

-88:00



# • Technical examination display (Reading status registers in HDMI receiver and displaying them by HEX value.)

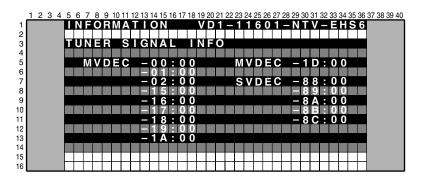
	HDMI SIGNAL INFO 1				
SA		Context			
	- 4E:	Video DE pixels [7:0]			
	- 4F:	Video DE pixels [11:8]			
0x60	- 50:	Video DE lines [7:0]			
	- 51:	Video DE lines [10:8]			
	- 55:	Video status (interlace or progressive, sync polarity)			
	- 2A:	Audio in channel status (PCM, copy information etc.)			
	- 30:	Audio in SPDIF channel status (sampling frequency)			
	- 31:	Audio in SPDIF channel status (sample word length)			
	- 44:	AVI InfoFrame data1 (video format etc.)			
	- 45:	AVI InfoFrame data2 (colorimetry, aspect ratio)			
	- 46:	AVI InfoFrame data3 (video scaling)			
0x68	- 47:	AVI InfoFrame data4 (video identification code)			
	- 48:	AVI InfoFrame data5 (pixel repeat value for 2880dot)			
	- 84:	Audio InfoFrame data1 (channel count, cording type)			
	- 85:	Audio InfoFrame data2 (always zero)			
	- 86:	Audio InfoFrame data3 (always zero)			
	- 87:	Audio InfoFrame data4 (channel / speaker allocation)			
	- 88:	Audio InfoFrame data5 (downmix inhibit, level shift value for downmixing)			

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	HDMI SIGNAL INFO 2					
SA		Context				
	- 3A:	Video full H resolution [7:0]				
0x60	- 3B:	Video full H resolution [12:8]				
	- 3C:	Video full V lines [7:0]				
	- 3D:	Video full V lines [10:8]				
	- 06:	N Value for audio clock regeneration method. [7:0]				
0x68	- 07:	N Value for audio clock regeneration method. [15:8]				
	- 08:	N Value for audio clock regeneration method. [19:16]				
	- 0C:	CTS Value for audio clock regeneration method. [7:0]				
	- 0D:	CTS Value for audio clock regeneration method. [15:8]				
	- 0E:	CTS Value for audio clock regeneration method. [19:16]				

### 7. TUNER SIGNAL INFO



### • Tuner signal information in MVDEC / SVDEC.

Device	SA	Context
	00h	Signal distinction 1
	01h	Signal distinction 2
	02h	Flag detection output
	15h	Noise level detection 1
MANDEO	16h	Noise level detection 2
MVDEC	17h	Non - standard signal detection
	18h	Subcarrier signal detection
	19h	ACC data output
	1Ah	ACC information output
	1Dh	Input signal mode
	88h	Status register 1 (TV/VCR status)
	89h	Status register 2 (Macrovision detection etc)
SVDEC	8Ah	Status register 3 (Front-end AGC gain value)
	8Bh	Status register 4 (Subcarrier to horizontal (SCH) phase)
Ī	8Ch	Status register 5 (signal distinction)

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# **② FUNCTION CHECK**

### Operation items

No.	Display	Content	RS-232C
1	FAN <=>	Control FAN speed for Force.	_
2	DTB ANT VOLT <=>	Change the power supply voltage for DTB antenna.	_

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## **3 COMMON ADJ. mode**

### RGB1

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Only for the technical use.

# **4 PANEL FACTORY mode**

### Operation items

No.	Function / Display	Summary Descuiption	RS - 232C	
1	PANEL INFORMATION	Display DIGITAL Assy software version and backup state, etc.	-	
2	PANEL WORKS	Display pulse meter and hour meter, etc.	-	
3	POWER DOWN	Display power-down history.	-	
4	SHUT DOWN	Display shut-down history Module u-com detecting	-	
5	PANEL-1 ADJ (+)	Adjust sustain wave form and drive power.	-	
6	PANEL-2 ADJ (+)	Adjust panel white balance and ABL.	-	
7	PANEL REVICE (+)	Set the correction level for panel degradation.	_	
8	ETC. (+)	Act as copying back-up data and cleaing various data.	-	
9	MASK SETUP (+)	Display the asc screen.	_	

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# ■ Configuration of Panel Factory mode

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No	Submode Name	Adjustable Bange	Remarks
No.	Submode Items	Adjustable Range	Remarks
1	PANEL INFORMATION		
2	PANEL WORKS		
3	POWER DOWN		
4	SHUT DOWN		
5	PANEL-1 ADJ (+)		
5-1	X-SUS B <=>	120 to 136	Equivalent to XSB
5-2	Y-SUS B <=>	120 to 136	Equivalent to YSB
5-3	Y-SUSTAIL T <=>	120 to 136	Equivalent to YTG
5-4	Y-SUSTAIL W <=>	120 to 136	Equivalent to YTW
5-5	XY-RST W <=>	120 to 136	Equivalent to RSW
5-6	VOL SUS <=>	000 to 255	Equivalent to VSU
5-7	VOL OFFSET <=>	000 to 255	Equivalent to VOF
5-8	VOL RST P <=>	000 to 255	Equivalent to VRP
5-9	SUS FREQ. <=>	MODE1 to MODE8	Equivalent to SFR
6	PANEL-2 ADJ (+)		
6-1	R-HIGH <=>	000 to 511	Equivalent to PRH
6-2	G-HIGH <=>	000 to 511	Equivalent to PGH
6-3	B-HIGH <=>	000 to 511	Equivalent to PBH
6-4	R-LOW <=>	000 to 999	Equivalent to PRL
6-5	G-LOW <=>	000 to 999	Equivalent to PGL
6-6	B-LOW <=>	000 to 999	Equivalent to PBL
6-7	ABL <=>	000 to 255	Equivalent to ABL
7	PANEL REVISE		
7-1	R-LEVEL <=>	LV-0 to LV-7	Equivalent to RRL
7-2	G-LEVEL <=>	LV-0 to LV-7	Equivalent to RGL
7-3	B-LEVEL <=>	LV-0 to LV-7	Equivalent to RBL
8	ETC. (+)		
8-1	BACKUP DATA <=>	NO OPRT<=>TRANSFER or ERR	Equivalent to BCP
8-2	DIGITAL EEPROM <=>	NO OPRT<=>DELETE/REPAIR	Equivalent to FAJ/UAJ
8-3	PD INFO. <=>	NO OPRT <=>CLEAR	Equivalent to CPD
8-4	SD INFO. <=>	NO OPRT <=>CLEAR	Equivalent to CSD
8-5	HR-MTR INFO. <=>	NO OPRT <=>CLEAR	Equivalent to CHM
8-6	PM/B1-B5 <=>	NO OPRT <=>CLEAR	Equivalent to CPM
8-7	P COUNT INFO. <=>	NO OPRT <=>CLEAR	Equivalent to CPC
9	MASK SETUP (+)		
9-1	MASK OFF		Equivalent to MKS+S00
9-2	SGL MASK 01 <=>		Equivalent to MKS+S01
9-3	SGL MASK 02 <=>	101/ 501/ 001/ 005 -00 -001/	Equivalent to MKS+S02
	•••	<=>48V<=>50V<=>60V<=>60P<=>70P<=>72V<=>75V<=> (Select each sequence.)	•••
9-62	CMB MASK 08 <=>		Equivalent to MKC+S08
9-63	CMB MASK 09 <=>		Equivalent to MKC+S09

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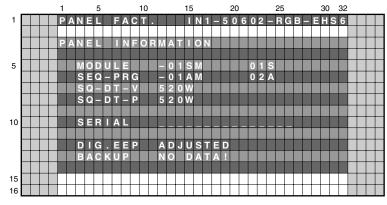
# ■ Details on submodes related to the panel

The GUI display examples here are those displayed when the main unit is used with the 50-inch model.

# 1. PANEL INFORMATION

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# ■ Key operation

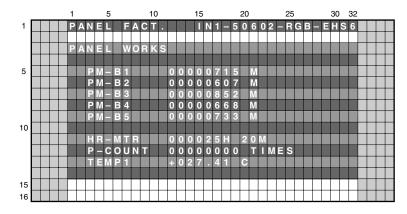
<DOWN> : Shifting to PANEL WORKS <UP> : Shifting to MASK SETUP (+)

<SEL> : MASK ON/OFF

<L/R> : Updating displayed information

The version of the microcomputer of the panel, serial number of the panel, adjustment states of the panel unit (OB DIGITAL ASSY), and backup status are displayed.

# 2. PANEL WORKS



# ■ Key operation

<DOWN> : Shifting to POWER DOWN <UP> : Shifting to PANEL INFORMATION

<SEL> : MASK ON/OFF

<L/R> : Updating displayed information

- The data from the pulse meter for each block from PM-B1 to PM-B5 are indicated. The values stored in the EEPROM (3 bytes each) are each converted into a decimal number, and the higher-order 8 digits are displayed (that means that the lowest-order digit represents millions).
- TEMP1: Indicates the temperature of the panel. By your pressing the L or R key, the temperature value can be updated.

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# 3. POWER DOWN

# ■ Key operation

<DOWN> : Shifting to SHUTDOWN <UP> : Shifting to PANEL WORKS

<SEL> : MASK ON/OFF

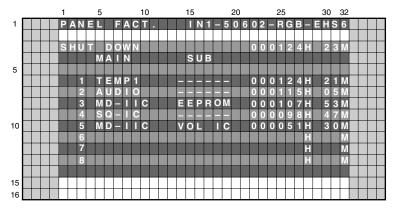
<L/R> : Updating displayed information

• Basically, data acquired with the command QPD are displayed in the columns "1ST" and "2ND, with the values from the hour meter when the power-down occurred.

# <Causes of power-down and corresponding OSD indications>

Cause of power-down	OSD Indication	Cause of power-down	OSD Indication
POWER SUPPLY Unit	P-PWR	ADDRESS Assy	ADRS
SCAN Assy	SCAN	X-DRIVE Assy	X-DRV
5V power for SCAN	SCN5V	DCDC for X drive	X-DCDC
Not used		X-SUS	X-SUS
DCDC for Y drive	Y-DCDC	Sequence drive stopped	SQ-NON
Y-SUS	Y-SUS	Specification inability	UNKNOW

# 4. SHUT DOWN



# ■ Key operation

<DOWN> : Shifting to PANEL-2ADJ (+) <UP> : Shifting to POWER DOWN

<SEL> : MASK ON/OFF

<L/R> : Updating displayed information

• Basically, data acquired with the command QSD (for MDU-IIC, subcategory data are also displayed) are displayed with the values from the hour meter when the shutdown occurred.

# <Causes of shutdown and corresponding OSD indications>

Cause of shutdown (main)	OSD Indication
SEQUENCE PROCESSOR	SQ-IC
MDU-IIC	MDU-IIC (with subcategory)
Abnormality in RST2	RST2
Panel having high temperature	TEMP1
Short-circuited speaker	AUDIO

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Cause of shutdown (sub)	OSD Indication
EEPROM	EEPROM (IC3156)
BACKUP	BACKUP (IC3754)
DAC	DAC (IC3302 to IC3304)
Audio IC	VOL-IC (IC3158)

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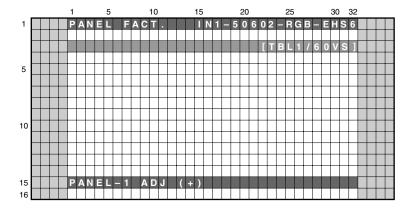
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# 5. PANEL-1 ADJ

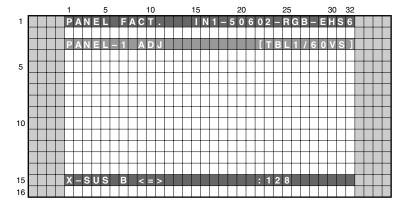
В



# ■ Key operation

<DOWN> : Shifting to PANEL-2 ADJ (+) <UP> : Shifting to POWER DOWN <SET> : Shifting to the next nested layer

<SEL> : MASK ON/OFF



# ■ Key operation

<DOWN> : Shifting to the next item <UP> : Shifting to the previous item <RIGHT> : Adding by one to the adjustment

value

<LEFT> : Subtracting by one from the

adjustment value

<VOL+> : Adding by 10 to the adjustment

value

<VOL-> : Subtracting by 10 from the

adjustment value

<SET> : Determining the adjustment value

and shifting to the upper layer

<SEL> : MASK ON/OFF

# <Drive-sequence indications and indications for the ABL/WB tables> (The OSD indications are displayed at the right part of the third line for submode PANEL-1 ADJ and subsequent submodes.)

Type of WB/ABL Tables		Type of Drive Sequences					
		Stand	dard Video/MASK ON	No	onstandard Video		PC
TBL1		48VS				60PS	Not used for consumer products
TBL2		50VS		50VN		70PS	
TBL3		60VS		60VN			
TBL4		72VS	Only Mask indication				
		75VS		75VN			

# <Lower-layer items of PANEL-1 ADJ>

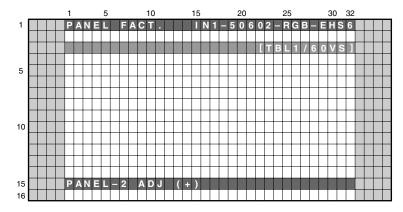
No.	Items	Adjustment/Setting Value	Remarks
1	X-SUS B <=>	120 to 136	Equivalent to XSB
2	Y-SUS B <=>	120 to 136	Equivalent to YSB
3	Y-SUSTAIL T <=>	120 to 136	Equivalent to YTG
4	Y-SUSTAIL W <=>	120 to 136	Equivalent to YTW
5	XY-RST W <=>	120 to 136	Equivalent to RSW
6	VOL SUS <=>	000 to 255	Equivalent to VSU
7	VOL OFFSET <=>	000 to 255	Equivalent to VOF
8	VOL RST P <=>	000 to 255	Equivalent to VRP
9	SUS FREQ. <=>	<=>MODE1 to MODE8<=>	Equivalent to SFR

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# 6. PANEL-2 ADJ

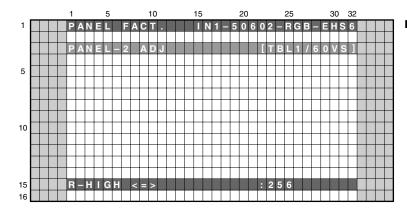


# ■ Key operation

<DOWN> : Shifting to PANEL REVISE <UP> : Shifting to PANEL-1 ADJ (+)

<SEL> : MASK ON/OFF

<SET> : Shifting to the next nested layer



# ■ Key operation

<DOWN> : Shifting to the next item
<UP> : Shifting to the previous item
<RIGHT> : Adding by one to the adjustment

value

<LEFT> : Subtracting by one from the

adjustment value

<VOL+> : Adding by 10 to the adjustment

value

<VOL-> : Subtracting by 10 from the

adjustment value

<SET> : Determining the adjustment value

and shifting to the upper layer

<SEL> : MASK ON/OFF

# <Lower-layer items of PANEL-2 ADJ>

No.	Items	Adjustment/Setting Value	Remarks
1	R-HIGH <=>	000 to 511	Equivalent to PRH
2	G-HIGH <=>	000 to 511	Equivalent to PGH
3	B-HIGH <=>	000 to 511	Equivalent to PBH
4	R-LOW <=>	000 to 999	Equivalent to PRL
5	G-LOW <=>	000 to 999	Equivalent to PGL
6	B-LOW <=>	000 to 999	Equivalent to PBL
7	ABL <=>	000 to 255	Equivalent to ABL

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В

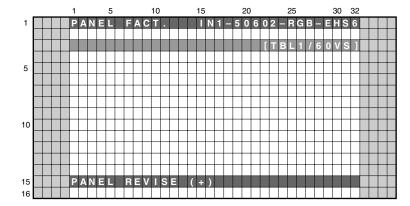
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# 7. PANEL REVISE

В



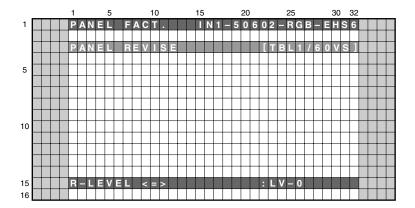
# ■ Key operation

<DOWN> : Shifting to ETC.(+)

<UP> : Shifting to PANEL-2 ADJ (+)

<SEL> : MASK ON/OFF

<SET> : Shifting to the next nested layer



# ■ Key operation

<DOWN> : Shifting to the next item
<UP> : Shifting to the previous item

<RIGHT> : Adding by one to the adjustment

value

<LEFT> : Subtracting by one from the

adjustment value

<VOL+> : Adding by 10 to the adjustment

value

<VOL-> : Subtracting by 10 from the

adjustment value

<SET> : Determining the setting value

and shifting to the upper layer

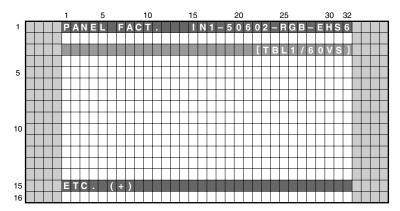
<SEL> : MASK ON/OFF

# <Lower-layer items of PANEL REVISE>

No.	Items	Adjustment/Setting Value	Remarks
1	R-LEVEL <=>	<=>LV-0 to LV-7<=>	Equivalent to RRL
2	G-LEVEL <=>	<=>LV-0 to LV-7<=>	Equivalent to RGL
3	B-I FVFI <=>	<=>I V-0 to I V-7<=>	Equivalent to RBI

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# 8. ETC.

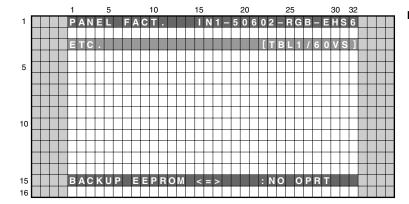


# ■ Key operation

<DOWN> : Shifting to MASK SETUP (+)
<UP> : Shifting to PANEL REVISE (+)

<SEL> : MASK ON/OFF

<SET> : Shifting to the next nested layer



# ■ Key operation

<DOWN> : Shifting to the next item <UP> : Shifting to the previous item <RIGHT> : Adding by one to the adjustment

value

<LEFT> : Subtracting by one from the

adjustment value

<SET> : Determining the setting value

and shifting to the upper layer

<SEL> : MASK ON/OFF

# <Lower-layer items of ETC.>

No.	Items	Adjustment/Setting Value	Remarks
1	BACKUP DATA <=>	<=>NO OPRT<=>TRANSFER<=>	"ERR" is indicated when no data are in the backup EEPROM. To activate the option to select TRANSFER, press the SET key about 5 seconds. (There is a situation resting more than 5 seconds.)
2	DIGITAL EEPROM <=>	<=>NO OPRT<=>REPAIR/DELETE<=>	"DELETE" is indicated when the panel unit has been already adjusted. To activate the option to select REPAIR/DELETE, press the SET key about 5 seconds.  (There is a situation resting more than 5 seconds.)
3	PD INFO. <=>	<=>NO OPRT<=>CLEAR<=>	
4	SD INFO. <=>	<=>NO OPRT<=>CLEAR<=>	To activate the option to select CLEAR, repeatedly
5	HR-MTR INFO. <=>	<=>NO OPRT<=>CLEAR<=>	press the SET key about 5 seconds.
6	PM/B1-B5 <=>	<=>NO OPRT<=>CLEAR<=>	(There is a situation resting more than 5 seconds.)
7	P-COUNT INFO. <=>	<=>NO OPRT<=>CLEAR<=>	7

- "NO OPRT" is selected when this submode is entered (to avoid accidental misoperation).
- When each item is set, the process starts then the unit shifts to the upper layer. (When NO OPRT is determined, the unit will shift to the upper layer without doing anything.)
- When BACK UP DATA are set to be backed up, if the digital EEPROM has not been adjusted, LED operation becomes that RED LED lights + BLUE LED flashes (200ms).

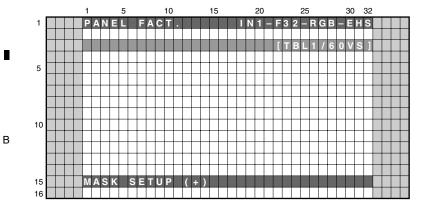
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# 9. MASK SETUP

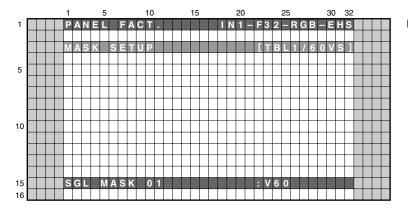


# ■ Key operation

<DOWN> : Shifting to PANEL INFORMATION

<UP> : Shifting to ETC. (+) <SEL> : MASK ON/OFF

<SET> : Shifting to the next nested layer



# **■** Key operation

<DOWN> : Shifting to the next MASK <UP> : Shifting to the previous MASK <RIGHT> : Changing MASK sequence (+) <LEFT> : Changing MASK sequence (-) <SET> : Determining the setting value

and shifting to the upper layer

<SEL> : MASK ON/OFF

# Cover-layer items of MASK SETUP>

No.	Items	Adjustment/Setting Value	Remarks
1	MASK OFF		Equivalent to MKS+S00
2	SGL MASK 01 <=>		Equivalent to MKS+S01
3	SGL MASK 02 <=>	60P<=>70P<=>72V<=>75V<=>	Equivalent to MKS+S02
4	•••		• • •
5	CMB MASK 08 <=>		Equivalent to MKC+S08
6	CMB MASK 09 <=>		Equivalent to MKC+S09

• With the keys <LEFT> and <RIGHT>, the Panel drive sequence in the MASK indication is changed in the following way: <=>48V<=>50V<=>60V<=>60P<=>70P<=>72V<=>75V<=>

# **5 OPTION mode**

# Operation items

No.	Function/Display	Content	RS-232C
1	PEAK LIMITTER ⇔	Control Peak Limitter (Select ON/OFF)	_
2	EDID WRITE MODE ⇔	Control EDID WRITE MODE (Select DISABLE/ENABLE)	_
3	CH PRESET ⇔	USER ⇔ FACTORY	_

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# **6 INITIALIZE mode**

# Operation items

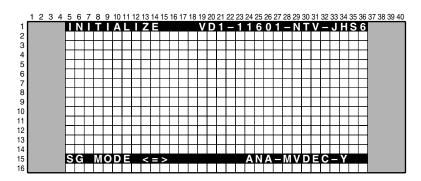
No.	Function/Display	Content	RS-232C
1	SYNC DET(+)	Only for the technical use.	_
2	SG MODE ⇔	Paired SG_MODE with SG_PATTERN. Select SG Route.	_
3	SG PATTERN ⇔	Paired SG_MODE with SG_PATTERN. Select SG Pattern.	_
4	SIDE MASK LEVEL(+)	Adjust Side Mask Color(R,G,B).	BSL GSL RSL
5	FINAL SETUP(+)	Initialize flash memories on virgin product status	FST
6	SR+ ⇔	Select SR+ mode or UART SELECT mode.	_
7	UART SELECT ⇔	Select boud Rate on RS-232C Communication	_
8	HDMI INTR POSITION(+)	Only for the technical use.	=

# 1. SYNC DET(+)

Only for the technical use.

# 2. SG MODE

The route of the Test Signal from the MVDEC is chosen by this function. After setting this function, SG pattern should be set.



No.	Display	Function
1	SG OFF	SG is set to OFF
2	DIG MVDEC YCBCR	Digital output (YCbCr)
3	ANA MVDEC Y	Analog output to the Videio SW (Y)
4	ANA MVDEC RGB	SCART
5	ANA AD YCBCR	Analog output to the RGB SW (YCbCr)
6	ANA AD RGB	Analog output to the RGB SW (RGB)

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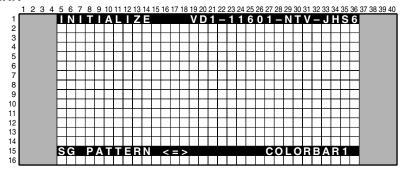
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# 3. SG PATTERN

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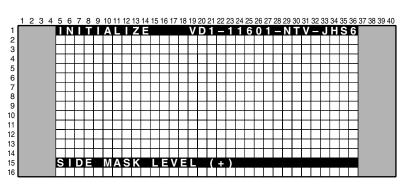


No.	Function/Display	SG Pattern (Brightness IRE Level/Color)	No.	Function/Display	SG Pattern (Brightness IRE Level/Color)
1	COLOR BAR1	Colorbar(75%)	11	RASTER4	Raster(75% Green)
2	COLOR BAR2	Colorbar(100%)	12	RASTER5	Raster(75% Magenta)
3	RAMP1	Ramp(100% white)	13	RASTER6	Raster(75% Red)
4	RAMP2	Ramp(100% Yellow)	14	RASTER7	Raster(75% Blue)
5	RAMP3	Ramp(75% Green)	15	RASTER8	Raster(-% Black)
6	RAMP4	Ramp(75% Red)	16	10STEP1	10STEP(100% white)
7	RAMP5	Ramp(75% Blue)	17	10STEP2	10STEP(100% Yellow)
8	RASTER1	Raster(100% White)	18	10STEP3	10STEP(75% Green)
9	RASTER2	Raster(75% Yellow)	19	10STEP4	10STEP(75% Red)
10	RASTER3	Raster(75% Cyanide)	20	10STEP5	10STEP(75% Blue)

# Important notice of the Test Signal mode (SG mode, SG pattern)

- The route switching should be done correctly in the factory mode.
- Y or G signal from SG should be input to the AVI terminal of the MVDEC when the SG signal is output.
- The function of the blanking offset (50 IRE) should be OFF during the SG mode.
- The setting of the Y/C separation function should be set to the NTSC during the SG mode
- Only the RGB and Component signals can be output during SG mode, so only the Y signal is input at the CVBS and S signal mode, thus the picture is composed in black and white color. This isn't a trouble.
- The SG mode 5 (ANA AD RGB) is only for the factory mode. Therefore some probrem (strange color, unstable brightness etc.) might be happened.

# 4. SIDE MASK LEVEL



Level of the side mask (R, G, and B) can be adjusted by using this menu. The input signal is necessary to adjust it.

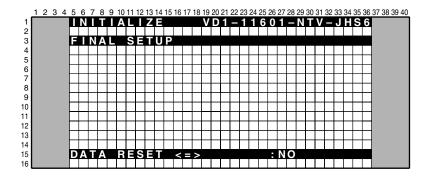
No.	Display	Context	RS-232C
1	R MASK LEVEL ⇔	Adjust Side Mask R (range :000-255)	RSL
2	G MASK LEVEL ⇔	Adjust Side Mask G (range :000-255)	GSL
3	B MASK LEVEL ⇔	Adjust Side Mask B (range :000-255)	BSL

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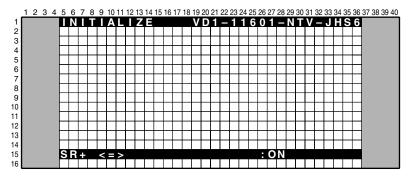
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# **5. FINAL SETUP**



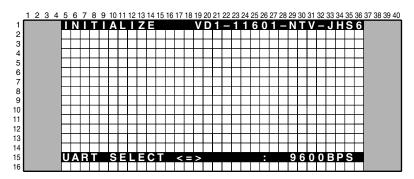
The value of all memorized data are set to shipment status. If the ENTER key is kept on pressing for 5 second when the status of this menu is YES, final setup will be done.

# 6. SR+



When using RS-232C function, select SR+ OFF.

# 7. UART SELECT



\* The bau-rate for SXE/RXE model is not valiabe like XDE/FDE model, but 9600bps fixed.

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# 6.4 LIST OF RS-232C COMMANDS

RS-232C commands can be used in Service Factory mode. Before using RS-232C commands, it is necessary to change the factory

See "6.2 USING RS-232C COMMANDS".

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[Note; If you want to see version infomation (ex. QS1, QS6, Factory, Menu), Please see 10 seconds after starting.]

# 1. RS-232C command for Main microcomputer

Command	Operation	Remarks
В	·	
BSL	Adjust side mask B	
С		
CNG	Clearing Main NG information	
CHR	Clearing Hour meter	
D		
DW*	Decreasing the adjustment value by*	*:1-9, 0(0 means 10),F(making the adjustment value the minimum)
F		
FAN	Turning Service Factory mode off.	
FAY	Turning Service Factory mode on.	
FST	Final Set Up	
G		
GSL	Adjusting side mask G	
I		
INA	Selection of tuner for terrestrial analog signals.	
INC***	Selection of tuner for terrestrial digital signals	436SXE model only *: channel number
INPS01	Input selection: input 1	
INPS02	Input selection: input 2	
INPS03	Input selection: input 3	
INPS04	Input selection: input 4	
0		
OSDS00	Turning the On-Screen Display off	Prohibit On-Screen Display.
OSDS01	Turning the On-Screen Display on	Permit On-Screen Display.
Р		
POF	Turning the power off.	
PON	Turning the power on.	
Q		
QS1	Obtaining the version data for each device.	
QS6	Obtaining the any version.	
QMT	Obtaining the MR temperature information.	
QNG	Obtaining NG data of the MR.	
R	Adii satara and a di da mara la D	
RSL	Adjustment od side mask R	
U	In a second section of the second section is the second se	14.0.000 mass 40) F/maldian the additional value the massing of
UP*	Increasing the adjustment value by *	*:1-9, 0(0 means 10),F(making the adjustment value the maximum)
Z ZME	Initializing of the EEDDOM video data	
ZME	Initializing of the EEPROM video data	

# 2. RS-232C command for module microcomputer

Comn Nar			Function	Effective only in Factory mode	Remarks
Α					
ABL	***	ABL ADJUSTMENT	Adjusting the upper limit of the power	0	
AMT	S00	AUDIO MUTE OFF	Turning off the audio muting		
	S01	AUDIO MUTE ON	Turning on the audio muting		
APW	S00	APL WB FUNCTION:OFF	WB correction interlocked with APL: OFF	0	
	S01	APL WB FUNCTION:ON	WB correction interlocked with APL: ON	0	
В					
BAL	***	BALANCE ADJUSTMENT	Audio balance adjustment		
BAS	***	BASS ADJUSTMENT	Audio bass adjustment		
ВСР		BACKUP COPY	Copying the backup data in the EEPROM	0	
С					
СВИ		CLEAR BACKUP	Clearing backup data	0	
СНМ		CLEAR HOUR METER	Clearing data of the hour meter	0	Used only when the panel is replaced
CPC		CLEAR POWER ON COUNT	Clearing power-on count data	0	Used only when the power unit is replaced
CPD		CLEAR POWER DOWN	Clearing power-down information	0	Used only when the panel is replaced
СРМ		CLEAR PLUSE METER	Clearing data of the pulse meter	0	Used only when the panel is replaced
CSD		CLEAR SHUT DOWN	Clearing MODULE shutdown information	0	Used only when the panel is replaced
D			3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		,
DRV	S00	DRIVE OFF	Sequence drive off		
	S01	DRIVE ON	Sequence drive on		
Е			- Contract of the contract of		
ESV	S00	POWER CONTROL NORMAL	Setting Power Consumption mode to 4-split normal curve		
F	S01	POWER CONTROL MODE1	Setting Power Consumption mode to 2-split normal curve		
-	S02	POWER CONTROL MODE2	Setting Power Consumption mode to 2-split power-saving curve		
F			coming to their concernity control to 2 opin perior canning cannot		
FAJ		FINISH ADJUSTMENT	Determining the flag of the HD DIGITAL Assy adjustment in "adjustment is completed"	0	
FAN		FACTORY NO	Esternining the may of the FID Draft AE 7609 adjustment in adjustment to complete	0	
FAY		FACTORY YES	Entering Factory mode		Turning the mask setting off
FCS	S00	FOCUS OFF	Turning the FOCUS function off		Turning the mask setting on
-	S01	FOCUS ON	Turning the FOCUS function on		
М		1 0000 014	Turning the 1 0000 function on		
MKC	S00	MASK COMBINATION OFF	MASK off		
-	S01	MASK COMBINATION 01	H ramp (slant 1) M	0	
F	S02	MASK COMBINATION 02	H ramp (slant 4) M	0	
-	S03	MASK COMBINATION 02	Slanting ramp M	0	
-	S04	MASK COMBINATION 04	30 for aging	0	
}	S05	MASK COMBINATION 05	05 for aging	0	
+	S06	MASK COMBINATION 06	Erasing afterimage 1	0	
-	S07	MASK COMBINATION 07		0	
-			Erasing afterimage 2 (RGB: zigzag, V: reverse)		
-	S08	MASK COMBINATION 08	White (change in luminance level)	0	
MKS	S09	MASK COMBINATION 09	PEAK SEEK RASTER	0	
	S00	MASK SINGLE OFF	MASK OFF		
-	S01	MASK SINGLE 1	H ramp (slant 1)	0	
-	S02	MASK SINGLE 2	H ramp (slant 4)	0	
-	S03	MASK SINGLE 3	V ramp (slant 1)	0	
	S04	MASK SINGLE 4	Slanting ramp	0	

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1	mand ime		Function	Effective only in Factory mode	Remarks
MKS	S05	MASK SINGLE 5	Window(Hi=870Lo=102)	0	
	S06	MASK SINGLE 6	Window(Hi=1023Lo=102)	0	
	S07	MASK SINGLE 7	Window(Hi=1023)	0	
	S08	MASK SINGLE 8	Window(Hi=1023)4%	0	
	S09	MASK SINGLE 9	Window(Hi=1023)1.25%	0	
	S10	MASK SINGLE 10	Window(1/7LINE)	0	
	S11	MASK SINGLE 11	STRIPE(MGT/GRN)	0	
	S12	MASK SINGLE 12	STRIPE(GRN/MGT)	0	
	S13	MASK SINGLE 13	B & W, checker (1 line)	0	
	S14	MASK SINGLE 14	B & W, checker (2 lines)	0	
	S15	MASK SINGLE 15	B & W, checker (4 lines)	0	
	S16	MASK SINGLE 16	B & W, checker (8 lines)	0	
	S17	MASK SINGLE 17	COLOR BAR	0	
	S18	MASK SINGLE 18	Slanting lines	0	
	S19	MASK SINGLE 19	Red & black, checker (1 line)	0	
	S20	MASK SINGLE 20	Red & black, checker (2 lines)	0	
	S21	MASK SINGLE 21	Red & black, checker (4 ines)	0	
	S22	MASK SINGLE 22	Red & black, checker (8 lines)	0	
	S23	MASK SINGLE 23	RGB zigzag, V reverse	0	
	S24	MASK SINGLE 24	SUS 2000 pulses (black raster)	0	
	S25	MASK SINGLE 25	Window(Hi=870Lo=102) PATTAN3	0	
	S26	MASK SINGLE 26	Window(Hi=1023Lo=102) PATTAN3	0	
	S27	MASK SINGLE 27	Window(Hi=1023) Pattern 3	0	
	S28	MASK SINGLE 28	Window(Hi=1023)4% Pattern 3	0	
	S29	MASK SINGLE 29	Window(Hi=1023)1.25% Pattern 3	0	
	S30	MASK SINGLE 30	Window(1/7LINE) Pattern 3	0	
	S51	MASK SINGLE 51	Raster - White	0	
	S52	MASK SINGLE 52	Raster - Red	0	
	S53	MASK SINGLE 53	Raster - Green	0	
	S54	MASK SINGLE 54	Raster - Blue	0	
	S55	MASK SINGLE 55	Raster - Black	0	
	S56	MASK SINGLE 56	Raster - Cyan	0	
	S57	MASK SINGLE 57	Raster - Magenta	0	
	S58	MASK SINGLE 58	Raster - Yellow	0	
	S59	MASK SINGLE 59	Raster - Cyan 460 :W	0	
	S60	MASK SINGLE 60	Raster - Green 774 :W	0	
	S61	MASK SINGLE 61	Raster - Gray 912 :W	0	
	S62	MASK SINGLE 62	Raster - Yellow egg color: W	0	
	S63	MASK SINGLE 63	Raster - Beige: W	0	
	S64	MASK SINGLE 64	Raster - Sky color: W	0	
	S65	MASK SINGLE 65	Raster - Pale purple: W	0	
	S66	MASK SINGLE 66	Raster - Magenta 54 :W	0	
	S67	MASK SINGLE 67	Raster - Red 588	0	
	S68	MASK SINGLE 68	Red 1023 + α	0	
	S69	MASK SINGLE 69	Green 1023 + $\alpha$	0	
		MASK SINGLE 70	Blue 1023 + α	0	
	S71	MASK SINGLE 70	Red 588 + $\alpha$	0	
		MASK SINGLE 71	Green 588 + $\alpha$		
	S72			0	
	S73	MASK SINGLE 73	Blue 588 + α	0	

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	mand ame		Function	Effective only in Factory mode	Remarks
MKS	S74	MASK SINGLE 74	Raster -Gray 512 (reservation)	0	
Р					
PAV	S**	PANEL AV MODE	Switching panel functions interlocked with the AV selection		
PBH	***	PANEL BLUE HIGH	Panel white balance adjustment - Blue highlight	0	
PBL	***	PANEL BLUE LOW	Panel white balance adjustment - Blue low light	0	
PDM	S00	PD MUTE OFF	Passing PD signals to the Power SUPPLY Unit => Power-down		
	S01	PD MUTE ON	Not passing PD signals to the Power SUPPLY Unit => No power-down		
PFN		FACTORY NO	PANEL FACTORY mode: off	0	
PFS		PANEL FINAL SETUP	Panel Setup at shipment	0	
PFY		FACTORY YES	PANEL FACTORY mode: on		
PGH	***	PANEL GREEN HIGH	Panel white balance adjustment - Green highlight	0	
PGL	***	PANEL GREEN LOW	Panel white balance adjustment - Green low light	0	
PGM	S**	PANEL GAMMA	Panel Setting of the gamma table		
PMT	S00	MUTE OFF	Canceling panel muting		
	S01	MUTE ON	Panel muting		
POF		POWER OFF	Power off		
PON		POWER ON	Power on		
PPT	S00	PANEL PROTECT OFF	Panel protection: off	0	
	S01	PANEL PROTECT ON	Panel protection: on	0	
PUC	S00	PUER CINEMA:OFF	Pure cinema: off		
	S01	PUER CINEMA:STD	Pure cinema: standard		
	S02	PUER CINEMA:ADV	Pure cinema: advanced		
Q	302	FOLK CINLINA.ADV	rule ciliella. advanced		
		OLIFOT AD ILIOTAGNIT	A		
QAJ		QUEST ADJUSTMENT	Acquiring various adjustment values		
QIP		QUEST PANEL INFORMATION	Acquiring various input signal data		
QPD		QUEST POWER-DOWN	Acquiring logs of power-down points		
QPM		QUEST PULSE METER	Acquiring data of the pulse meter		
QPW			Acquiring panel white balance adjustment values		
QS1		QUEST STATUS 1	Acquiring data on the unit, such as the version of the program		
QS2		QUEST STATUS 2	Acquiring data on the status of the unit, such as temperature		
QSD		QUEST SHUT DOWN	Acquiring data on Panel shutdown		
QSI		QUEST SIGNAL INFORMATION	Acquiring data related with signals		
R					
RBL	S**	PANEL REVISE BLUE LEVEL	Setting of blue level for panel degradation correction	0	
RGL	S**	PANEL REVISE GREEN LEVEL	Setting of green level for panel degradation correction	0	
RHI	***	RED HIGH	User white balance - Red highlight		
RLW	***	RED LOW	User white balance - Red low light		
RRL	S**	PANEL REVISE RED LEVEL	Setting of red level for panel degradation correction	0	
RSW	***	XY-RST-W ADJ	Adjustment of the width of XY reset pulse	0	
S					
SDM	S00	SD MUTE OFF	Shutdown enabled		
	S01	SD MUTE ON	Shutdown prohibited		
SFR	S01	SUS FREQUENCY MODE1	Measures against AM radio noise - Pattern 1	0	
	S02	SUS FREQUENCY MODE2	Measures against AM radio noise - Pattern 2	0	
	S03	SUS FREQUENCY MODE3	Measures against AM radio noise - Pattern 3	0	
	S04	SUS FREQUENCY MODE4	Measures against AM radio noise - Pattern 4	0	
	S05	SUS FREQUENCY MODE5	Measures against AM radio noise - Pattern 5	0	
	S06	SUS FREQUENCY MODE6	Measures against AM radio noise - Pattern 6	0	
		SUS FREQUENCY MODE7	Measures against AM radio noise - Pattern 7	0	

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Comi	mand me		Function	Effective only in Factory mode	Remarks
SFR	S08	SUS FREQUENCY MODE8	Measures against AM radio noise - Pattern 8	0	
SMM	S**	SIDE MASK MODE	Setting of the effective area during streaking correction	0	
SN0	***	SERIAL NO 0	Setting of the serial No. 0 (panel)	0	
SN1	***	SERIAL NO 1	Setting of the serial No. 1 (panel)	0	
SN2	***	SERIAL NO 2	Setting of the serial No. 2 (panel)	0	
SN3	***	SERIAL NO 3	Setting of the serial No. 3 (panel)	0	
SN4	***	SERIAL NO 4	Setting of the serial No. 4 (panel)	0	
SRS	S00	SRS OFF	SRS function: off		
	S01	SRS ON	SRS function: on		
Т					
TBS	S00	TRUBASS OFF	TruBass function: off		
	S01	TRUBASS ON	TruBass function: on		
TRE	***	TREBLE ADJUSTMENT	Audio treble adjustment		
U					
UAJ		UN-ADJUSTMENT	Determining the flag for the OB DIGITAL Assy adjustment in "not adjusted"	0	
v					
VFQ	S01	FREQENCY VIDEO 48Hz	Setting the frequency in Mask mode to VD-48 Hz	0	
	S02	FREQENCY VIDEO 50Hz	Setting the frequency in Mask mode to VD-50 Hz	0	
	S03	FREQENCY VIDEO 60Hz	Setting the frequency in Mask mode to VD-60 Hz	0	
	S05	FREQENCY THEATER 72Hz	Setting the frequency in Mask mode to VD-72 Hz	0	
	S06	FREQENCY 75Hz	Setting the frequency in Mask mode to VD-75 Hz	0	
	S13	FREQENCY PC 60Hz	Setting the frequency in Mask mode to PC-60 Hz	0	
	S14	FREQENCY PC 70Hz	Setting the frequency in Mask mode to PC-70 Hz	0	
	S22	FREQENCY VIDEO 50Hz NONSTD	Setting the frequency in Mask mode to VD-50 Hz (nonstandard)	0	
	S23	FREQENCY VIDEO 60Hz NONSTD	Setting the frequency in Mask mode to VD-60 Hz (nonstandard)	0	
i [	S25	FREQENCY VIDEO 72Hz NONSTD	Setting the frequency in Mask mode to VD-72 Hz (nonstandard)	0	
	S26	FREQENCY VIDEO 75Hz NONSTD	Setting the frequency in Mask mode to VD-75 Hz (nonstandard)	0	
VOF	***	Vofs ADJUSTMENT	Adjustment of the reference value of Vofs voltage	0	
VOL	***	VOLUME	Audio volume adjustment		
VRP	***	Vrp ADJUSTMENT	Adjustment of the reference value of Vrst-p voltage	0	
VSU	***	Vsus ADJUSTMENT	Adjustment of the reference value of Vsus voltage	0	
w					
WBI	S00	WB INITIALIZE NO	Panel WB standard output mode: off	0	
WBI	S01	WB INITIALIZE YES	Panel WB standard output mode: on	0	
х					
XSB	***	X-SUS-B ADJ	X-SUS-B ADJ	0	
Υ					
YSB	***	Y-SUS-B ADJ	Y-SUS-B ADJ	0	
YTG	***	Y-SUSTAIL ADJ	Y-SUSTAIL ADJ	0	
YTW	***	Y-SUSTAIL W ADJ	Y-SUSTAIL W ADJ	0	

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# **6.5 OUTLINE OF COMMANDS**

**QS1:** Returning information on the module and the version of the software.

Order	Part	Data Content	Size	Remarks
0	-	Received Command Name	3 byte	'QS1' only
1		Display Information 1	1 byte	
2		Display Information 2	1 byte	
3		Display Information 3	1 byte	
4		Display Information 4	1 byte	
5		Display Information 5	1 byte	
6		Boot Version of Module microcomputer.	3 byte	
7	DIGITAL	Program Version of Module microcomputer.	8 byte	
8		Boot Version of ASTRA MANTA	3 byte	
9		Program Version of ASTRA MANTA	8 byte	
10		Sequence Version (43VIDEO)	4 byte	
11		Sequence Version (43PC)	4 byte	
12		Sequence Version (50VIDEO)	4 byte	
13		Sequence Version (50PC)	4 byte	
14		, (comma)	1 byte	
15		Product Infomation 1	1 byte	
16		Product Infomation 2	1 byte	
17		Product Infomation 3	1 byte	
18		Product Infomation 4	1 byte	
19	MAIN	Version of IF microcomputer	4 byte	
20	IVIAIN	Version of Main microcomputer	8 byte	
21		Boot Version of Main microcomputer	4 byte	
22		Program Version of CARRERA-MANTA	8 byte	
23		Boot Data Version of CARRERA-MANTA (DAT)	4 byte	
24		GUI Data Version of CARRERA-MANTA (GUI-DAT)	8 byte	
25		Enhanced Data Version of CARRERA-MANTA (WID-DAT)	8 byte	
26		PIC Data Version of CARRERA-MANTA (PIC-DAT)	8 byte	

**QS6:** Returning information of the Flash Device.

Order	Data Content		Remarks
0	Received Command Name	3 byte	'QS6' only
1	Version of DTB (PDP-436SXE only)	4 byte	
2	Version of PC Card	8 byte	AII " 0 "
3	Version of Text	60 byte	
4	User Passward	4 byte	

**QMT:** Returning information of temperature and FAN speed.

Order	Data Content	Size	Remark
1	Received Command Name	3 byte	'QMT' only
2	Temperature	3 byte	
3	FAN Information	1 byte	0: STOP 1: MIN 2: MAX

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QNG: Returning data (logs keep on Main microcomputer) on shutdown of Main ASSY.

Order	Data	Size	Context
0	Received Command Name	3 byte	'QNG' only
1	Latest NG data	1 byte	
2	Data of subcategory for the latest NG	1 byte	
3	Data of hour meter for the latest NG	7 byte	
4	Data of temperature for the latest NG	3 byte	
5	2nd latest NG data	1 byte	
6	Data of subcategory for the 2nd latest NG	1 byte	
7	Data of hour meter for the 2nd latest NG	7 byte	
8	Data of temperature for the 2nd latest NG	3 byte	
:	:	:	
29	8th latest NG data	1 byte	
30	Data of subcategory for the 8th latest NG	1 byte	
31	Data of hour meter for the 8th latest NG	7 byte	
32	Data of temperature for the 8th latest NG	3 byte	

# Details on the NG data and subcategory

Data	Cause of Shutdown Remarks	
0	Normal	
1	Failure of communication to Module microcomputer	
2	3-wire Serial Communication of Main microcomputer.	Subcategory ⇒ 1
3	IIC Communication failure of Main microcomputer Subcategory ⇒ 2	
4	Communication failure of Main microcomputer &Unknown Error	
5	Fan stopped	
6	Abnormally high temperature	
7	Failure of Digital Tuner Subcategory ⇒ 3	
8	Abnormalilty in ASIC power line (DC-DC)	

# • Data on Subcategories for failure in 3-wire serial communication of Main microcomputer (subcategory 1)

Data	Cause of Shutdown Rema	
0	Non subcategory	
1	Communication failure of IF microcomputer	Power OFF
2	MANTA communication failure(MULIT1) Power OFF	
3	MANTA communication failure(MULIT2)  Reserved	
4	MANTA communication failure(I/P)	
5	MANTA communication failure(D-SEL)	

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# • Data on Subcategories for failure in IIC communication of Main microcomputer (subcategory 2)

Data	Cause of Shutdown	Data	Cause of Shutdown
0	Non subcategory	Α	AD/PLL
1	Analog Tuner 1(Front End 1)	В	HDMI
2	-	С	TMDS Tx
3	MPX	D	TMDS Rx
4	AV Switch	E	M2 Communication
5	RGB Switch	F	M2 Busy
6	CCD	G	64k EEPROM
7	GCR		
8	Main VDEC		
9	-		

# • Data on Subcategories for failure in the DTB communication of Main microcomputer (subcategory 3)

Data	Cause of Shutdown Remarks	
0	Non subcategory	
1	Failure to DTB Starting	
2	Communication failure to DTB	

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С

■ Acquisition of panel operation data • • • [QS2]

The command QS2 is for acquiring data on the panel's operations. Basically, this command is used for the module's microcomputer to inform the main unit's microcomputer of changes in panel operation.

Command Format	Effective Operation Modes	Function	Remarks
[QS2]	All operations	To acquire data on operations of the panel	Return data: 3 (ECO)+23(DATA)+2(CS)=28Byte

	Data Arrangement	Data Length	Output Example
ECO		3Byte	QS2
1	Notification of mode shifting to STB	1Byte	1
2	Flag for adjustment of the panel unit	1Byte	0
3	Flag for adjustment-data backup	1Byte	0
4	"1st PD" data	1Byte	0
5	"2nd PD" data	1Byte	0
6	Reservation	3Byte	***
7	Temperature data (TEMP 1)	3Byte	128
8	SD main data	1Byte	0
9	SD subdata	1Byte	0
10	Operation status induced by SD	1Byte	0
11	Data from the hour meter	8Byte	00000259
12	MASK indication	1Byte	0
cs		2Byte	4A

Note: "00000259" of "Data from the hour meter" means 2 hours 59 minuts.

 Notification of mode shifting to Standby

Disable to transfer to Standby mode Able to transfer to Standby mode

Adjustment of the panel unit	
0	Adjustment completed
1	Adjustment not completed

Adjustment-data backup	
0	With backup data
1	No data

● PD data		
0	No PD data	
1	Not used	
2	POWER	
3	SCAN	
4	SCN-5V	
5	Not used	
6	Y-DCDC	
7	Y-SUS	
8	ADRS	
9	X-DRV	
Α	X-DCDC	
В	X-SUS	
С	Not used	
D	SQ-IC	
Е	Not used	
F	Specification inability	

● SD main data		
0	No SD	
1	SQ-IC	
2	MDU-IIC	
3	RST2	
4	Panel having high temperature	
5	Short-circuited speaker	

● SD subdata (IIC)		
0	No SD subdata	
1	EEPROM	
2	BACKUP	
3	DAC	
4	VOL IC	
5	DVI	

<ul><li>Operation status induced by SD</li></ul>	
0	Normal
1	Relay-off completed
2	During warning indication

MASK indication		
0	MASK-OFF	
1	MASK-ON	

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# ■ Acquisition of other data on the panel • • • [QIP]

The command QIP is for acquiring data other than those available with QS1 (data necessary before turning the power on) and QS2 (data to inform of operational status change).

Command Format	Effective Operation Modes	Function	Remarks
[QIP]	All operations	To acquire data on operations of the panel	Return data: 3 (ECO)+39(DATA)+2(CS)=44Byte

Data Arrangement		Data Length	Output Example
ECO		3Byte	QIP
1	SERIAL	15Byte	
2	HOUR METER	8Byte	00000000
3	BACKUP HR MTR	8Byte	00000000
4	PON COUNTER	8Byte	00000000
cs		2Byte	94

Note: "Serial number" is not inputted in this model.

# ■ Acquisition of panel adjustment data (common data) • • • [QAJ]

The command QAJ is for acquiring data on the panel's factory-preset items that are common to the main unit and that share the same memory.

Command Format	Effective Operation Modes	Function	Remarks
[QAJ]	All operations	To acquire data on operations of the panel	Return data: 3 (ECO)+27(DATA)+2(CS)=32Byte

	Data Arrangement	Data Length	Output Example
ECO		3Byte	QAJ
1	V-SUS adjustment value	3Byte	128
2	V-OFT adjustment value	3Byte	128
3	V-RST-P adjustment value	3Byte	128
4	XSB adjustment value	3Byte	128
5	YSB adjustment value	3Byte	128
6	YTG adjustment value	3Byte	128
7	YTW adjustment value	3Byte	128
8	RSW adjustment value	3Byte	128
9	R-RIVISE setting value	1Byte	0
10	G-RIVISE setting value	1Byte	0
11	B-RIVISE setting value	1Byte	0
cs		2Byte	B7

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# ■ Acquisition of ABL/WB adjustment data • • • [QPW]

The command QPW is for acquiring data on the panel's factory-preset items whose memory tables are changed in sequence.

Command Format	Effective Operation Modes	Function	Remarks
[QPW]	All operations	To acquire data on operations of the panel	Return data: 3 (ECO)+35(DATA)+2(CS)=40Byte

	Data Arrangement	Data Length	Output Example
ECO		3Byte	QPW
1	Drive sequence	3Byte	60V
2	Standard/nonstandard	1Byte	S
3	Type of ABL/WB tables	2Byte	T2
4	ABL adjustment value	3Byte	128
5	R-HIGH adjustment value	3Byte	256
6	G-HIGH adjustment value	3Byte	256
7	B-HIGH adjustment value	3Byte	256
8	R-LOW adjustment value	3Byte	512
9	G-LOW adjustment value	3Byte	512
10	B-LOW adjustment value	3Byte	512
11	Gamma setting	1Byte	Α
12	Streaking correction	1Byte	1
13	Peripheral luminance correction	1Byte	0
14	Reservation	1Byte	*
15	WB interlocked with APL	1Byte	0
16	Transition of protective operations	1Byte	0
17	Reservation	2Byte	**
cs		2Byte	37

Drive sequence	
48V	Video48 Hz
50V	Video50 Hz
60V	Video60 Hz
72V	Video72 Hz
75V	Video75 Hz
60P	PC60Hz
70P	PC70Hz

● Setting for Items 12 and 15		
0	OFF	
1	ON	

	ipheral luminance rection
0	OFF
2	ON (interlocked with APL)

	ndard/ nstandard
S	Standard
N	Nonstandard

Transition of brightness by protective operations	
0	Upper limit state for brightness
1	Brightness being reduced
2	Lower limit state for brightness
3	Brightness being increased

Gamma setting		
n	0 to F	

• Тур	● Type of ABL/WB tables				
Tn	n: 1 to 4				

# ■ Acquisition of parameters • • • [QPM]

The command QPM is for acquiring the accumulated number of pulses for each of 5 blocks from the EEPROM.

Command Format	Effective Operation Modes	Function	Remarks
[QPM]	All operations	To acquire data on operations of the panel	Return data: 3 (ECO)+40(DATA)+2(CS)=45Bvte

	Data Arrangement		Output Example
ECO		3Byte	QPM
1	Pulse meter B 1	8Byte	00000000
2	Pulse meter B 2	8Byte	00000000
3	Pulse meter B 3	8Byte	00000000
4	Pulse meter B 4	8Byte	00000000
5	Pulse meter B 5	8Byte	00000000
cs		2Byte	E7

<sup>•</sup> The output data on the accumulated number of pulses for each block are calculated in the following way: the high-order 4 bytes of the accumulated number of pulses for each block are converted into a decimal number, and the high-order 8 digits are transmitted. The unit of each block is M\_pulse (mega).

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PDP-436SXE

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■ Acquisition of PD logs • • • [QPD]

The command QPD is for acquiring data from the 8 latest power-down (PD) logs.

Command Format	Effective Operation Modes	Function	Remarks
[QPD]	All operations	To acquire data on the power-down logs	Return data: 3 (ECO)+80(DATA)+2(CS)=85Byte

	Data Arrangement	Data Length	Output Example
ECO	ECO		QPD
1	Latest "1st PD" data	1byte	Α
2	Latest "2nd PD" data	1byte	2
3	Data from the hour meter for the latest PD	8byte	00010020
4	Second latest "1st PD" data	1byte	Е
5	Second latest "2nd PD" data	1byte	9
6	Data from the hour meter for the second latest PD	8byte	00008523
7	Third latest "1st PD" data	1byte	4
8	Third latest "2nd PD" data	1byte	3
9	Data from the hour meter for the third latest PD	8byte	00004335
10	Fourth latest "1st PD" data	1byte	2
11	Fourth latest "2nd PD" data	1byte	0
12	Data from the hour meter for the fourth latest PD	8byte	00000945
13	Fifth latest "1st PD" data	1byte	4
14	Fifth latest "2nd PD" data	1byte	0
15	Data from the hour meter for the fifth latest PD	8byte	00000715
16	Sixth latest "1st PD" data	1byte	Α
17	Sixth latest "2nd PD" data	1byte	2
18	Data from the hour meter for the sixth latest PD	8byte	00000552
19	Seventh latest "1st PD" data	1byte	Α
20	Seventh latest "2nd PD" data	1byte	0
21	Data from the hour meter for the seventh latest PD	8byte	00000213
22	Eighth latest "1st PD" data	1byte	D
23	Eighth latest "2nd PD" data	1byte	0
24	Data from the hour meter for the eighth latest PD	8byte	000001A7
cs		2Byte	27

● PD data			
0	No PD		
1	Not used		
2	P-POWER		
3	SCAN		
4	SCN-5V		
5	Not used		
6	Y-DCDC		
7	Y-SUS		
8	Address		
9	9 X-DRIVE		
Α	X-DCDC		
В	X-SUS		
O	DIG-DCDC		
D	QS (driving stopped)		
Ш	Not used		
F	Specification inability		

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В

С

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# 3

■ Acquisition of SD logs • • • [QSD]

The command QSD is for acquiring the data from the 8 latest shutdown (SD) logs.

Command Format	Effective Operation Modes	Function	Remarks
[QSD]	All operations	To acquire data on the shutdown logs	Return data: 3 (ECO)+80(DATA)+2(CS)=85Byte

	Data Arrangement	Data Length	Output Example
ECO	ECO		QSD
1	Latest SD data	1byte	1
2	Latest SD subcategory data	1byte	0
3	Data from the hour meter for the latest SD	8byte	00752013
4	Second latest SD data	1byte	5
5	Second latest SD subcategory data	1byte	0
6	Data from the hour meter for the second latest SD	8byte	00495204
7	Third latest SD data	1byte	2
8	Third latest SD subcategory data	1byte	3
9	Data from the hour meter for the third latest SD	8byte	00100355
10	Fourth latest SD data	1byte	2
11	Fourth latest SD subcategory data	1byte	5
12	Data from the hour meter for the fourth latest SD	8byte	00075620
13	Fifth latest SD data	1byte	1
14	Fifth latest SD subcategory data	1byte	0
15	Data from the hour meter for the fifth latest SD	8byte	00000852
16	Sixth latest SD data	1byte	2
17	Sixth latest SD subcategory data	1byte	5
18	Data from the hour meter for the sixth latest SD	8byte	000000451
19	Seventh latest SD data	1byte	0
20	Seventh latest SD subcategory data	1byte	0
21	Data from the hour meter for the seventh latest SD	8byte	00000000
22	Eighth latest SD data	1byte	0
23	Eighth latest SD subcategory data	1byte	0
24	Data from the hour meter for the eighth latest SD	8byte	00000000
cs		2Byte	7D

● SD data			
0	No SD		
1	SQ-IC		
2	MDU-IIC		
3	RST2		
4	Panel having high temperature		
5	Short-circuited speaker		

SD subcategory				
0	0 No SD subcategory			
1	1 EEPROM			
2	BACKUP			
3	3 DAC			
4	VOL-IC			
5	DVI			
6	Not used			

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# ■ Acquisition of input signal data • • • [QSI]

The command QSI is for acquiring all data on input video signals.

Command Format	Effective Operation Modes	Function	Remarks
[QSI]	All operations	To acquire all data on input video signals	Return data: 3 (ECO)+66(DATA)+2(CS)=71Byte

	Data Arrangement	Data Length	Output Example
ECO		3Byte	QSI
1	Type of drive sequence	3byte	60V
2	Standard/nonstandard	1byte	S
3	Type of ABL/WB tables	2byte	T1
4	Total value of PCN	4byte	0256
5	Total value of PRH	4byte	0256
6	Total value of PGH	4byte	0256
7	Total value of PBH	4byte	0256
8	Total value of PBR	4byte	0512
9	Total value of PRL	4byte	0512
10	Total value of PGL	4byte	0512
11	Total value of PBL	4byte	0512
12	Reservation	2byte	**
13	Detection of existence of H	1byte	Υ
14	Detection of V frequency	4byte	6002
15	Reservation	4byte	****
16	Obtained APL data	4byte	1023
17	Number of SUS pulses	4byte	0457
18	Result of detection of still picture	1byte	1
19	Result of detection of cracking in the panel	1byte	1
20	Result of detection for scanning protection	1byte	1
21	Result of detection for external protection	1byte	1
22	Transition of protection operation	1byte	0
23	Reservation	4byte	****
cs		2Byte	27

● Det	ection of existence of H
N	No H
Υ	H detected

● Tra	nsition of brightness by tection operation
0	Upper limit state for brightness
1	Brightness being reduced
2	Lower limit state for brightness
3	Brightness being increased

- If data for an item cannot be obtained during Standby mode, the return data for that item will be "\*."
- The types of data for Items 1-3 in the table (drive sequence, standard/nonstandard, and type of ABL/WB tables) are the same as with the command QPW.
- Each total value for Items 4-11 represents that of panel WB, user WB, and degradation correction, and the actual data being sent to the ASTRA are output.
- Detection of V frequency: The V signal input to the panel is measured in the range of 30.51 to 99.99 Hz. The measured value is multiplied by 100 and then output.
- Number of SUS pulses : The number is calculated from data from APL and the drive sequence. The output value must be between 0174 and 2752.
- APL value: The APL value for the input video signal (or mask indication) will be output in the range of 0000 to 1023.

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# ■ Setting for Factory mode permission/prohibition • • • [FAY/FAN] [PFY/PFN]

The commands FAY/FAN and PFY/PFN are for prohibiting/permitting panel-adjustment commands during normal operation and are to be used to avoid accidental change of panel adjustment values.

0	Oį	peration	
Command Format	Effective Operation Modes	Control (by the microcomputer itself)	Remarks
[FAY]	Normal operation mode	Adjustment meder ON	Mask indications will be forcibly turned off.
[PFY]	while the power is on	Adjustment mode: ON	With a PFY command, the mask does not change.
[FAN]	During FAV	Adicates and made OFF	
[PFN]	During FAY	Adjustment mode: OFF	

• Commands that are effective during normal operation will also be effective during FAY (PFY) mode.

# Note:

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• The functions shown below will be forcibly switched when Mask ON/OFF is switched. (Even if the panel is off, changed settings will be retained.)

While the status of Mask ON or OFF is maintained, if settings for the individual functions shown in ① and ② are changed, those settings are retained (even if the drive frequency is changed).

# 1) Functions related to picture quality

Function	Setting while Mask is ON	Setting while Mask is OFF	Remarks
Peripheral luminance correction	OFF	ON	
WB correction interlocked with APL	OFF	ON	
Streaking correction	OFF	ON	

# 2 Functions related to panel protection

Function	Setting while Mask is ON	Setting while Mask is OFF	Remarks
Detection of still picture	OFF	ON	
Detection of cracking in the panel	OFF	ON	
Scanning protection	OFF	ON	

• Depending on the type of mask displayed, phosphor burn of the panel may occur. As the panel-protection function is forcibly turned off with this model, care must be taken when color-bar signals are to be displayed for an extended period.

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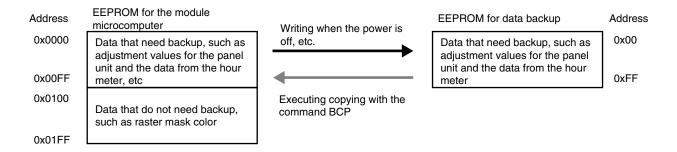
# ■ Backup function for adjustment values for the panel unit • • • [FAJ/UAJ/CBU/BCP]

When the OB DIGITAL Assy is to be replaced, adjustment values can be copied from the backup EEPROM to the EEPROM of the Assy for service.

Command		Operation		
Format	Effective Operation Modes	Control (by the	microcomputer itself)	Remarks
[FAJ]		To make the flag setting that indicating that adjustment of the panel unit has been completed	Writing 00 to the 4-kbyte ROM and copying to the 2-kbyte ROM	This takes at least 350 ms.
[UAJ]	During FAY	To make the flag setting that indicating that adjustment of the main unit has not been completed	Writing F0 to the 4-kbyte ROM	
[CBU]		To make the flag setting that indicating that backup data have not been copied	Writing F0 to the 2-kbyte ROM	The backup ROM is initialized.
[BCP]		To copy Digital backup data to EEPROM	Copying backup data	

When the flag indicating that the production line adjustments (SUS waveform, voltage margin, and panel WB) for the panel unit have been completed is set to on, data stored from Addresses 0x0000 to 0X00FF in the digital EEPROM are copied to the same addresses of the backup EEPROM. Copying will be executed immediately before the relay of normal operation is off.

- When the command BCP is received while a warning indicating that backup copying has not been completed is displayed (conditions: Digital EEPROM = not adjusted, and backup EEPROM = adjusted), backed-up data will be copied to the Digital EEPROM, and various adjustment values related to Factory mode will be readjusted. Then LED warning indication will be shut off, and normal LED indication will be restored.
- If the backup EEPROM has not been adjusted when the command BCP is received (0x0063 is not written to all three addresses of the key data), copying of the backup data is not possible, and "XXX" is returned.



## Note:

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- When the command FAJ, UAJ, or CBU is executed, only high-order one-byte (0x00 or 0xF0) key data will be written to the EEPROM, and lower-order one-byte (0x63) data will not be changed.
- It takes at least 350 ms from reception of the command FAJ until an echo is sent back, because data are copied to the backup EEPROM.

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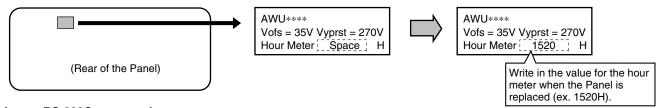
# 6.6 METHOD FOR REPLACING THE SERVICE PANEL ASSY

When the Panel Assy is replaced with one for service, the following adjustments are required:

# ■ Adjustments of Vofs voltage and Vyprst voltage

Enter the reference adjustment values for the Vofs voltage and Vyprst voltage that are written on the label attached to the panel for service.

Note: Enter the values, using an RS-232C command or the Factory Menu.



# Using an RS-232C command

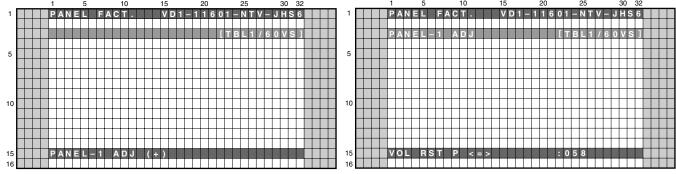
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Enter a "PFY" command with Factory mode ON.

Convert the adjustment voltage values written on the label attached at the rear of the Panel to an input command, referring to the conversion chart. (See the next page.)

- Reference adjustment of the Vofs voltage: Ex. "Vofs = 35" → (Check the conversion chart.) Enter "VOF112."
- Reference adjustment of the Vyprst voltage: Ex. 50-inch "Vyprst = 270 V" → (Check the conversion chart.) Enter "VRP055." (Note that the conversion charts for 50-inch and 43-inch Panels are different.)

# **Using the Factory Menu**



Select the main item "PANEL FACT." by pressing the MUTE key then enter Panel Factory mode by pressing the SET key.

Using the ▲/▼ keys, select "PANEL-1 ADJ" then press the SET key to enter the next lower nested layer.

Select "VOL-OFFSET" or "VOL RST P" then enter a command value converted from the voltage value, using the ◄/► keys.

# ■ Clearing data on various histories of the Panel, such as those on the hour meter

- It is necessary to clear the data on the hour meter, etc. to match them to the actual driving hours of the Panel.
- It is also necessary to clear the data on SD and PD, because the accumulated power-on time when a shutdown or power-down occurred is recorded.

Note: Clear the values, using an RS-232C command or the Factory Menu.

There are two types of hour meters. Do not take the MR hour meter for the hour meter.

# Using an RS-232C command

To acquire the accumulated power-on time of the product itself, use the "GS2" RS-232C command.

1 To clear the data on the hour meter (for the Panel) : CHM
2 To clear the data on the pulse meter : CPM
3 To clear the data on the SD history : CSD
4 To clear the data on the PD history : CPD

# **Using the Factory Menu**

See "7.1.6 HOW TO CLEAR HISTORY DATA."

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# ■ Conversion charts for electronic VRs: Conversion chart for the Vofs

Conversion		e vois (Com		voltage value					
Command	Voltage value [V]	Command	Voltage value [V]						
VOF000	14.09	VOF056	24.55	VOF112	35.01	VOF168	45.47	VOF224	55.93
VOF001	14.28	VOF057	24.74	VOF113	35.20	VOF169	45.66	VOF225	56.12
VOF002	14.46	VOF058	24.92	VOF114	35.38	VOF170	45.85	VOF226	56.31
VOF003	14.65	VOF059	25.11	VOF115	35.57	VOF171	46.03	VOF227	56.49
VOF004	14.84	VOF060	25.30	VOF116	35.76	VOF172	46.22	VOF228	56.68
VOF005	15.02	VOF061	25.48	VOF117	35.95	VOF173	46.41	VOF229	56.87
VOF006	15.21	VOF062	25.67	VOF118	36.13	VOF174	46.59	VOF230	57.05
VOF007	15.40	VOF063	25.86	VOF119	36.32	VOF175	46.78	VOF231	57.24
VOF008	15.58	VOF064	26.04	VOF120	36.51	VOF176	46.97	VOF232	57.43
VOF009	15.77	VOF065	26.23	VOF121	36.69	VOF177	47.15	VOF233	57.61
VOF010	15.96	VOF066	26.42	VOF122	36.88	VOF178	47.34	VOF234	57.80
VOF011	16.14	VOF067	26.61	VOF123	37.07	VOF179	47.53	VOF235	57.99
VOF012	16.33	VOF068	26.79	VOF124	37.25	VOF180	47.71	VOF236	58.17
VOF013	16.52	VOF069	26.98	VOF125	37.44	VOF181	47.90	VOF237	58.36
VOF014	16.70	VOF070	27.17	VOF126	37.63	VOF182	48.09	VOF238	58.55
VOF015	16.89	VOF071	27.35	VOF127	37.81	VOF183	48.27	VOF239	58.73
VOF016	17.08	VOF072	27.54	VOF128	38.00	VOF184	48.46	VOF240	58.92
VOF017	17.27	VOF073	27.73	VOF129	38.19	VOF185	48.65	VOF241	59.11
VOF018	17.45	VOF074	27.91	VOF130	38.37	VOF186	48.83	VOF242	59.30
VOF019	17.64	VOF075	28.10	VOF131	38.56	VOF187	49.02	VOF243	59.48
VOF020	17.83	VOF076	28.29	VOF132	38.75	VOF188	49.21	VOF244	59.67
VOF021	18.01	VOF077	28.47	VOF133	38.93	VOF189	49.39	VOF245	59.86
VOF022	18.20	VOF078	28.66	VOF134	39.12	VOF190	49.58	VOF246	60.04
VOF023	18.39	VOF079	28.85	VOF135	39.31	VOF191	49.77	VOF247	60.23
VOF024	18.57	VOF080	29.03	VOF136	39.49	VOF192	49.96	VOF248	60.42
VOF025	18.76	VOF081	29.22	VOF137	39.68	VOF193	50.14	VOF249	60.60
VOF026	18.95	VOF082	29.41	VOF138	39.87	VOF194	50.33	VOF250	60.79
VOF027	19.13	VOF083	29.59	VOF139	40.05	VOF195	50.52	VOF251	60.98
VOF028	19.32	VOF084	29.78	VOF140	40.24	VOF196	50.70	VOF252	61.16
VOF029	19.51	VOF085	29.97	VOF141	40.43	VOF197	50.70	VOF253	61.35
VOF030	19.69	VOF086	30.15	VOF142	40.62	VOF198	51.08	VOF254	61.54
VOF031	19.88	VOF087	30.34	VOF143	40.80	VOF199	51.26	VOF255	61.72
VOF032	20.07	VOF088	30.53	VOF144	40.99	VOF200	51.45	VOI 255	01.72
VOF032	20.25	VOF089	30.71	VOF145	41.18	VOF200	51.64		
VOF034	20.23	VOF090	30.90	VOF146	41.36	VOF201	51.82		
VOF035	20.63	VOF091	31.09	VOF147	41.55	VOF202	52.01		
VOF036	20.81	VOF091	31.28	VOF147	41.74	VOF204	52.20		
VOF037	21.00	VOF093	31.46	VOF149	41.92	VOF205	52.38		
VOF038	21.19	VOF094	31.65	VOF150	42.11	VOF205	52.57		
VOF039	21.13	VOF095	31.84	VOF151	42.11	VOF207	52.76		
VOF040	21.56	VOF095	32.02	VOF151	42.48	VOF207 VOF208	52.70		
VOF040 VOF041	21.75	VOF090 VOF097	32.21	VOF152 VOF153	42.46	VOF208 VOF209	53.13		
VOF041	21.73	VOF098	32.40	VOF154	42.86	VOF210	53.32		
VOF042 VOF043	22.12	VOF098 VOF099	32.40	VOF154 VOF155	42.86	VOF210 VOF211	53.50		
					43.04				
VOF045	22.31	VOF101	32.77	VOF156		VOF212	53.69		
VOF045	22.50	VOF101	32.96	VOF157	43.42	VOF214	53.88		
VOF046	22.68	VOF102	33.14	VOF158	43.60	VOF214	54.06		-
VOF047	22.87	VOF104	33.33	VOF159	43.79	VOF215	54.25		
VOF048	23.06	VOF104	33.52	VOF160	43.98	VOF216	54.44		
VOF049	23.24	VOF105	33.70	VOF161	44.16	VOF217	54.63		
VOF050	23.43	VOF106	33.89	VOF162	44.35	VOF218	54.81		
VOF051	23.62	VOF107	34.08	VOF163	44.54	VOF219	55.00		
VOF052	23.80	VOF108	34.26	VOF164	44.72	VOF220	55.19		
VOF053	23.99	VOF109	34.45	VOF165	44.91	VOF221	55.37		
VOF054	24.18	VOF110	34.64	VOF166	45.10	VOF222	55.56		
VOF055	24.36	VOF111	34.82	VOF167	45.29	VOF223	55.75		

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■ Conversion charts for electronic VRs: Conversion chart for the Vyprst (1/2)

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Command —	Voltage [V]	Command	Voltage [V]	Command	Voltage [V]
VRP000	<b>43-inch Model</b> 236.3	VRP056	<b>43-inch Model</b> 260.6	VRP112	<b>43-inch Model</b> 284.9
VRP001	236.7	VRP057	261.0	VRP113	285.4
VRP002	237.1	VRP058	261.5	VRP114	285.8
VRP003	237.6	VRP059	261.9	VRP115	286.2
VRP004	238.0	VRP060	262.3	VRP116	286.7
VRP005	238.4	VRP061	262.8	VRP117	287.1
VRP006	238.9	VRP062	263.2	VRP118	287.5
VRP007	239.3	VRP063	263.6	VRP119	288.0
VRP008	239.7	VRP064	264.1	VRP120	288.4
VRP009	240.2	VRP065	264.5	VRP121	288.8
VRP010	240.6	VRP066	264.9	VRP122	289.3
VRP011	241.0	VRP067	265.4	VRP123	289.7
VRP012	241.5	VRP068	265.8	VRP124	290.1
VRP013	241.9	VRP069	266.2	VRP125	290.6
VRP014	242.4	VRP070	266.7	VRP126	291.0
VRP015	242.8	VRP071	267.1	VRP127	291.4
VRP016	243.2	VRP072	267.5	VRP128	291.9
VRP017	243.7	VRP073	268.0	VRP129	292.3
VRP018	244.1	VRP074	268.4	VRP130	292.7
VRP019	244.5	VRP075	268.9	VRP131	293.2
VRP020	245.0	VRP076	269.3	VRP132	293.6
VRP021	245.4	VRP077	269.7	VRP133	294.0
VRP022	245.8	VRP078	270.2	VRP134	294.5
VRP023	246.3	VRP079	270.6	VRP135	294.9
VRP024	246.7	VRP080	271.0	VRP136	295.3
VRP025	247.1	VRP081	271.5	VRP137	295.8
VRP026	247.6	VRP082	271.9	VRP138	296.2
VRP027	248.0	VRP083	272.3	VRP139	296.7
VRP028	248.4	VRP084	272.8	VRP140	297.1
VRP029	248.9	VRP085	273.2	VRP141	297.5
VRP030	249.3	VRP086	273.6	VRP142	298.0
VRP031	249.7	VRP087	274.1	VRP143	298.4
VRP032	250.2	VRP088	274.5	VRP144	298.8
VRP033	250.6	VRP089	274.9	VRP145	299.3
VRP034	251.0	VRP090	275.4	VRP146	299.7
VRP035	251.5	VRP091	275.8	VRP147	300.1
VRP036	251.9	VRP092	276.2	VRP148	300.6
VRP037	252.3	VRP093	276.7	VRP149	301.0
VRP038	252.8	VRP094	277.1	VRP150	301.4
VRP039	253.2	VRP095	277.5	VRP151	301.9
VRP040	253.6	VRP096	278.0	VRP152	302.3
VRP041	254.1	VRP097	278.4	VRP153	302.7
VRP042	254.5	VRP098	278.8	VRP154	303.2
VRP043	254.9	VRP099	279.3	VRP155	303.6
VRP044	255.4	VRP100	279.7	VRP156	304.0
VRP045	255.8	VRP101	280.1	VRP157	304.5
VRP046	256.3	VRP102	280.6	VRP158	304.9
VRP047	256.7	VRP103	281.0	VRP159	305.3
VRP048	257.1	VRP104	281.4	VRP160	305.8
VRP049	257.6	VRP105	281.9	VRP161	306.2
VRP050	258.0	VRP106	282.3	VRP162	306.6
VRP051	258.4	VRP107	282.8	VRP163	307.1
VRP052	258.9	VRP108	283.2	VRP164	307.5
VRP053	259.3	VRP109	283.6	VRP165	307.9
VRP054	259.7	VRP110	284.1	VRP166	308.4
VRP055	260.2	VRP111	284.5	VRP167	308.8

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# ■ Conversion charts for electronic VRs: Conversion chart for the Vyprst (2/2)

	art for the Vyprst (Commands vs. Voltage [V]	Voltage values le	Voltage [V]
Command	43-inch Model	Command	43-inch Model
VRP168	309.2	VRP224	333.6
VRP169	309.7	VRP225	334.0
VRP170	310.1	VRP226	334.4
VRP171	310.6	VRP227	334.9
VRP172	311.0	VRP228	335.3
VRP173	311.4	VRP229	335.7
VRP174	311.9	VRP230	336.2
VRP175	312.3	VRP231	336.6
VRP176	312.7	VRP232	337.1
VRP177	313.2	VRP233	337.5
VRP178	313.6	VRP234	337.9
VRP179	314.0	VRP235	338.4
VRP180	314.5	VRP236	338.8
VRP181	314.9	VRP237	339.2
VRP182	315.3	VRP238	339.7
VRP183	315.8	VRP239	340.1
VRP184	316.2	VRP240	340.5
VRP185	316.6	VRP240 VRP241	341.0
VRP186	317.1	VRP241	341.4
VRP187	317.5	VRP243	341.8
VRP188	317.9	VRP244	342.3
VRP189	318.4	VRP244	342.7
VRP190	318.8	VRP245	343.1
VRP191	319.2	VRP247	343.6
VRP192	319.7	VRP248	344.0
VRP193	320.1	VRP249	344.4
VRP194	320.5	VRP250	344.9
VRP195	321.0	VRP251	345.3
VRP196	321.4	VRP252	345.7
VRP197	321.8	VRP253	346.2
VRP198	322.3	VRP254	346.6
VRP199	322.7	VRP255	347.0
VRP200	323.2	VIII 255	047.0
VRP201	323.6	1	
VRP202	324.0	1	
VRP203	324.5	1	
VRP204	324.9	1	
VRP205	325.3	1	
VRP206	325.8	1	
VRP207	326.2	1	
VRP208	326.6	1	
VRP209	327.1	1	
VRP210	327.5	1	
VRP211	327.9	1	
VRP212	328.4	1	
VRP213	328.8	1	
VRP214	329.2	1	
VRP214 VRP215	329.7	1	
VRP215	330.1	1	
VRP217	330.5	1	
		1	
VRP218	331.0	1	
VRP219	331.4	1	
VRP220	331.8	1	
VRP221	332.3	1	
VRP222	332.7	1	
VRP223	333.1		

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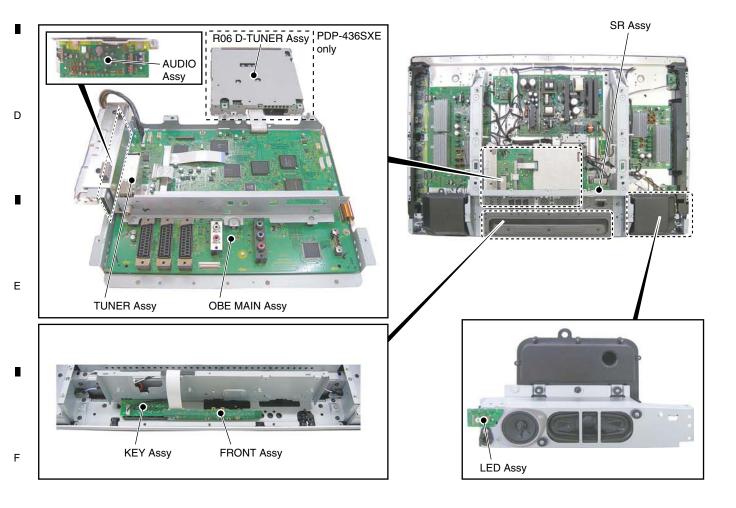
# 7. GENERAL INFORMATION

# 7.1 DIAGNOSIS

# 7.1.1 PCB LOCATION

43 Y DRIVE SUB POWER POWER SUPPLY PANEL SENSOR Assy Assy Unit Assy SUS CLAMP 1 Assy 43 SCAN B Assy 43 X DRIVE Assy В SUS CLAMP 2 43 SCAN A Assy Assy 43 ADDRESS 43 ADDRESS 43 ADDRESS 43 ADDRESS IR Assy Assy Assy Assy Assy **OB DIGITAL** Assy С

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# ■ 5 ■ 6 ■ 7 ■ 7.1.2 DIAGNOSIS OF SHUTDOWN/POWER-DOWN INDICATED BY LEDS

1 times 1 times 2.58 2.58 **LED Pattern** n times n times 2 times 2 times 1 times 1 times 200ms 500ms 500ms œ œ m m m m œ Œ m Œ Red Blue Flashes (100ms) Red n times (500+2500ms) Blue n times (500+2500ms) Red ligts + Blue Flashes (200ms) Blue lights Red light Standby (Power management) Backup copy NG Ucom rewriting State Power Down Power ON Shutdown

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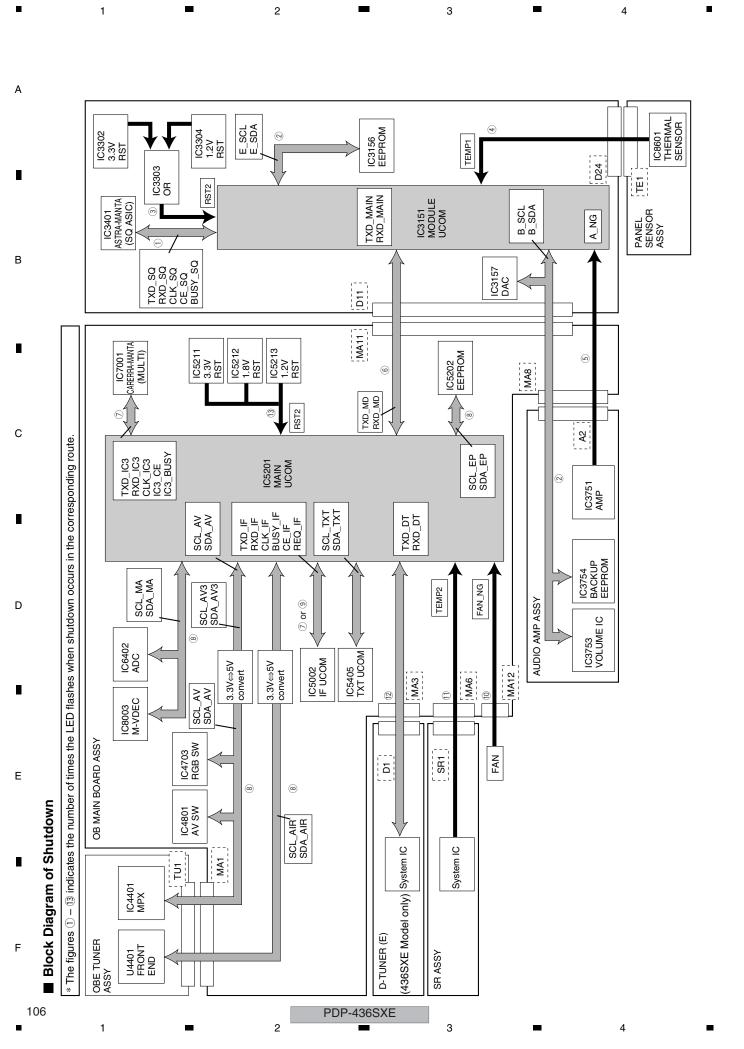
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■ LED Pattern

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# Shutdown diagnosis

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LED's Flashing	Shutdown Operation	Defective Assy	Cause for Shutdown	Points to check	Possible defective parts	Remarks
Blue 1	Failure in communication	OB DIGITAL	crit	SQ ASIC BLOCK, PANEL FLASH BLOCK	IC3401, IC3301	
	with the Panel-Drive IC	OB DIGITAL	Failure in writing in the Panel-Drive IC		IC3401, IC3301	Turn the power back on then check if the version can be read with the QS1 command
Blue 2	cation	OB DIGITAL	Failure in the EEPROM (4 K) or its peripheral circuit   MODULE UCOM BLOCK	MODULE UCOM BLOCK	IC3156	
		OB DIGITAL	Failure in the DAC IC or its peripheral circuit	MODULE UCOM BLOCK	IC3157	
	(Check the SD	AUDIO	=	AUDIO	IC3754	
	the	AUDIO		AUDIO	IC3753	
	ractory menu.)		Failure in an FPC or the periphery of the connector Periphery of the FPC that connects between MA11 and D11	eriphery of the FPC that connects between MA11 and D11	_	Check if the FPC is damaged or improperly connected.
			Failure in a cable or the periphery of the connector Periphery of the cable that connects between MA8 and A2	eriphery of the cable that connects between MA8 and A2		Check if the cable is damaged or short-circuited.
Blue 3	Failure in the DIGTAL	OB DIGITAL	Failure in the DC/DC converter	DIGITAL DD CON BLOCK	U3601	Check if 3.3 V and 1.2 V are activated (not short-circuited).
	ASIC power supply	OB DIGITAL		PANELFLASH BLOCK	IC3302, IC3304	
		POWER SUPPLY	12-V power not booted	POWER SUPPLY		
Blue 4	Panel high temperature	_	Failure in a cable or the periphery of the connector	D24-TE1		Check if the cable is damaged, short-circuited, or disconnected.
	-		Failure in the thermistor or its peripheral circuit	PANEL SENSOR	TH8601	
			Panel high temperature	Ambient temperature		Temperature detected by the sensor is 90°C or higher.
Blue 5	Failure in audio		Speaker short-circuited S	Speaker terminals		Check if speaker cables are short-circuited inside the unit.
		AUDIO	Failure in the AMP IC	AUDIO AMP	IC3751	
			Failure in an FPC or the periphery of the connector   P	Periphery of the FPC that connects between MA11 and D11		Check if the FPC is damaged or improperly connected.
			Failure in a cable or the periphery of the connector P	Periphery of the cable that connects between MA8 and A2		Check if the cable is damaged or short-circuited.
Blue 6	Failure in communication	OB DIGITAL	Failure in the module UCOM or its peripheral circuit N	MODULE UCOM BLOCK	IC3151	Check for short-circuited/open communication line (TXD_MAIN/RXD_MAIN).
	with the module	OB DIGITAL		MODULE UCOM BLOCK	IC5201	
	0000		Failure in an FPC or the periphery of the connector	Periphery of the FPC that connects between MATT and DTT		Check if the FPC is damaged or improperly connected.
Blue 7	Failure in three-wire-serial	OBE MAIN	Failure in the IF UCOM or its peripheral circuit   IFUCOM BLOCK	FUCOM BLOCK	IC5002	Check for short-circuited/open communication line (TXD_IF/RXD_IF/CLK_IF/BUSY_IF/CE_IF/REQ_IF)
	main microcomputer	OBE MAIN	Failure in the MULTI IC or its peripheral circuit   MULTI BLOCK	MULTI BLOCK	IC7001, IC7002	Check for short-circuited/open communication line (TXD_IC3/RXD_IC3/CLK_IC3/BUSY_IC3/CE_IC3)
	on the Factory menu.)	OBE MAIN	Failure in writing in the MULTI IC		IC7001, IC7002	
Blue 8	Failure in IIC	TUNER	Failure in the front end or its peripheral circuit T	TUNER	U4401	Check for short-circuited/open communication line (SCL_AIR/SDA_AIR)
	communication with the		Failure in the periphery of the connector	Periphery of the TU1 and MA1 connectors		Check if the cable is improperly connected.
	main microcomputer	OBE MAIN	Failure in the AV_SW or its peripheral circuit A	AV_SW BLOCK	IC4801	Check for short-circuited/open communication line (SCL_AV3/SDA_AV3/SCL_AV/SDA_AV)
		OBE MAIN	Failure in the RGB_SW or its peripheral circuit   RGB_SW BLOCK	3GB_SW BLOCK	IC4703	Check for short-circuited/open communication line (SCL_AV3/SDA_AV3/SCL_AV/SDA_AV)
		TUNER	Failure in the MPX or its peripheral circuit N	MPX	IC4401	Check for short-circuited/open communication line (SCL_AV3/SDA_AV3/SDA_AV/SCL_AV)
		OBE MAIN	Failure in the 3.3 V-5 V conversion circuit	MAIN_UCOM BLOCK	Q5201	
		OBE MAIN	Failure in the TXT UCOM or its peripheral circuit T	TXT UCOM BLOCK	IC5405	Check for short-circuited/open communication line (SCL_MA/SDA_MA)
		OBE MAIN		VDEC BLOCK	IC6003	Check for short-circuited/open communication line (SCL_MA/SDA_MA)
		OBE MAIN	Failure in the ADC or its peripheral circuit	ADC BLOCK	IC6201	Check for short-circuited/open communication line (SCL_MA/SDA_MA)
i		OBE MAIN	Failure in the MA-EEP or its peripheral circuit	MAIN_UCOM BLOCK	IC5202	Check for short-circuited/open communication line (SCL_EP/SDA_EP)
Blue 9	Failure in communication	OBE MAIN	sircuit	MAIN_UCOM BLOCK	IC5206, IC5207	Check for short-circuited/open communication line (TXD_IF/RXD_IF/CLK_IF/BUSY_IF/CE_IF/REQ_IF)
	with the main microcomputer	OBE MAIN		MAIN_UCOM BLOCK	IC5206, IC5207	
Blue 10	Failure in the fan	FAN	Failure in the fan motor or stoppage of the fan caused by adherence of dirt	FAN		
			Failure in a cable or the periphery of the connector MA12	MA12		Check if the cable is disconnected or improperly connected.
Blue 11	Unit high temperature		-	Ambient temperature		l emperature detected by the sensor is 55°C or nigner.
			Failure in the thermistor or its peripheral circuit		TH7601	
			Failure in a cable or the periphery of the connector MA6-SR1	WA6-SR1		Check if the cable is damaged, short-circuited, or disconnected.
Blue 12	Failure in the digital	DIGITAL TUNER	DIGITAL TUNER Failure in the system IC or its peripheral circuit		IC2000	Check for short-circuited/open communication line (TXD_DT/RXD_DT)
	turier Note: The unit will not be shut off.		Failure in a signal-system flexible cable or in the periphery of the connector	MA3-D1		Check if the flexible cable is damaged or improperly connected.
	The log is recorded only.		Failure in a power-supply-system cable or in the periphery of the connector	PS3-D5		Check if the cable is damaged, short-circuited, or disconnected.
Blue 13	Failure in the MAIN		Failure in a cable or the periphery of the connector D	D12-MA10		Check if the cable is damaged, short-circuited, or disconnected.
	ASIC power supply	OB DIGITAL	Failure in the DC/DC converter	DIGITAL DD CON BLOCK	U3601	Check if 3.3 V and 1.2 V are activated (not short-circuited).
		OBE MAIN		MAIN_UCOM BLOCK	IC5211, IC5212, IC5213	Check if 3.3 V, 1.8 V and 1.2 V are activated (not short-circuited).
		POWER SLIPPLY	9	POWER SUPPLY		

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The figures  $\widehat{\mathbb{U}}$  -  $\widehat{\mathbb{G}}$  indicate the number of times the LED flashes when shutdown occurs in the RELAY Control POWER SUPPLY ASSY Protection Circuit corresponding route. Note: В D21 PD\_TRIGGER EXT\_PD PS\_PD (2) IC3155 PD MUTE Circuit IC3151 Module ucom PD\_MUTE OR ■ Power Down Signal Block Diagram ADR\_PD1 SQ\_PD <u></u> <u>6</u> 0 9 <u>a</u>  $\odot$ XDD\_CNV\_PD YDD\_CNV\_PD XSUSTN\_PD YSUSTN\_PD XDRIVE\_PD YDRIVE\_PD IC3401 SQ\_ASIC SCN5V\_PD SCAN\_PD D3051 D3052 OR OB DIGITAL ASSY D15-D18 D19 D20 5 AD1  $\stackrel{{}_\sim}{\scriptscriptstyle{\sim}}$ 43 ADDRESS ASSY AD1 43 XDRIVE ASSY 43 YDRIVE ASSY

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LED Flashing times	Operation PD	Failure PCB Assy	PD Summary	Confirming Point	Assumed Failure Parts	Remarks
2	POWER	POWER SUPPLY				
		43 SCAN A, B		SCAN IC	SCAN IC	VH-GNDH Short Cut
		Ļ	VH UVP	Y SUS BLOCK	IC2252, IC2253	VSUS-SUSOUT, SUSOUT-SUSGND Short Cut
ღ	SCAN	43 Y DRIVE		VH DC/DC	IC2502, L2501	
			Detection of Connector loosing out	CN2001, CN2350		
		43 X DRIVE	VH UVP	IC1202	IC1202	VSUS-SUSOUT, SUSOUT-SUSGND Short Cut
		4	Detection of Connector loosing out	CN2401, CN2402		
•	1	43 SCAIN A, B		SCAN IC	SCAN IC	
4	NC-N-5	היינים א מי	IC5V UVP	IC5V DC/DC	Q2605, R2647	
		43 T UNIVE		Y SUS BLOCK	R2352	
			di i seci	VOFS DC/DC	Q2606, R2619, R2620	
9	Y-DCDC	Y-DCDC 43 Y DRIVE		Y SUS BLOCK	IC2252, IC2253, Q2280, Q2281	MSKS-SUSOUT Short Cut
			Vprst UVP	Vprst Regulator	Q2531, Q2532, IC2535	
٢	0	7. C.	Detecting PD of mid-point	Y RESONANCE BLOCK	IC2101	
,	r-5005	43 Y URIVE	voltage	Y SUS BLOCK	Q2221	
c	0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Address PD	ADDRESS RESONANCE BLOCK	D1634	V+ADR-GND_ADR Short Cut
Q	ADRS	43 AUURESS	Detection of Connector loosing out	CN1501, CN3501-CN3504		
9	XDRIVE	43 X DRIVE	Detection of Connector loosing out	CN1001		
			Detection of Connector loosing out	CN1201		
10	х-рсрс	X-DCDC 43 X DRIVE		VRN DC/DC	Q1323, R1332, R1333	
			7 V D V N N V V V V V V V V V V V V V V V	X SUS BLOCK	R1204, Q1272	
11	x-sus	43 X DRIVE	Detecting PD of mid-point voltage	X RESONANCE BLOCK	IC1101	
13	SQ	OB DIGITAL	Drive sequence stop	SQ ASIC BLOCK	IC3401	
		OVP - OVEB VOI TAGE PROTEC	AGE PROTECT			

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OVP: OVER VOLTAGE PROTECT UVP: UNDER VOLTAGE PROTECT

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#### 7.1.4 POWER ON/OFF FUNCTION FOR THE LARGE-SIGNAL SYSTEM

Function: To prevent a power-down from being generated, operation of only the digital-signal processing and audio circuits are enabled, and power is not supplied to the panel driving system (large-signal system).

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- Usages: 1. In a case where a check is required of signals' being correctly output to the driving systems during a repair, etc.
  - 2. In a case where diagnosis is required for judging whether the power to the large-signal system or small-signal system has been down when a power-down occurred.
  - 3. In a case where micro-computer is required to rewrite.

- Methods: 1. Short-circuit the test point K7601 (DRF) of the SR Assy and GND (see Fig. 4 below).
  - 2. Issue the "DRV S00" RS-232C command. (Command for turning the function off: DRV S01)

Notes:

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- When the power to the large-signal system is off, as the PD signal is muted, power-downs other than PS\_PD are not activated.
- As soon as the clips are removed while the power to the large-signal system is off, a power-down will occur. Be sure to turn the power off before removing the clips.
- While this function is activated with RS-232C commands, it is possible to issue "DRV S01" (for turning the function off) while the power is on. However, as it may damage the unit, turn the power off before issuing the "DRV S01" command.
- Although the "DRV S00/S01" RS-232C commands are valid during Standby mode, once the main power is turned off, the unit will return to "DRV S01."

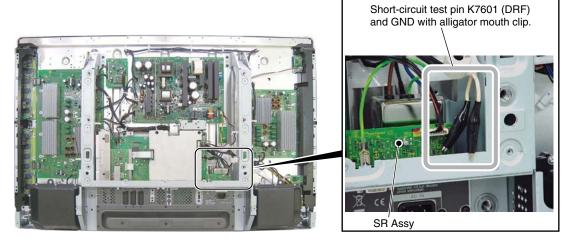


Fig. 4 Position of DRIVE OFF

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#### 7.1.5 BACKUP WHEN THE PANEL UNIT IS ADJUSTED

#### Outline

Adjustment data set at the factory are stored in the EEPROM (IC3156/4K) on the OB DIGITAL Assy. Those adjustment data are automatically backed up in the EEPROM (backup EEPROM: IC3754) on the AUDIO Assy. Therefore, even if the OB DIGITAL Assy is replaced, the adjustment data can be restored by copying the backup data, which enables you to omit newly performing adjustments on the panel unit.

### Data to be backed up

- Voltage margin adjustment values
- Data on the hour meter
- Upper limit of power-adjustment value
- Data on the pulse meter
- Panel WB adjustment values
- Serial number
- Drive waveform adjustment values
- Data of the P-ON counter
- PD/SD histories

# How to copy the backup data

1. When the OB DIGITAL Assy is replaced with that for service (normal servicing) (In a case where no data are on the DIG. EEP, and backup data have been adjusted)

Command: "BCP" (Effective during FAY) Factory Menu

PANEL INFORMATION

▼ (down)

▼ (down)

ETC. (+)

[set]

BACKUP DATA: NO OPRT

>> (right)

**BACKUP DATA: TRANSFER** 

[set] (Press and hold for 5 seconds.)

• After the OB DIGITAL Assy is replaced with that for service, check that "DIG. EEP: NO DATA!" is displayed on the Panel Information screen of the Factory Menu.

• If this command is not executed, the red LED lights, and the blue LED flashes, to warn you that copying of the backup adjustment data for the panel unit failed.

• If both the OB DIGITAL Assy and AUDIO Assy are to be replaced, first replace the AUDIO Assy and set the unit to Standby mode. Then replace the OB DIGITAL Assy.

2. In a case where a OB DIGITAL Assy that was mounted on another unit is to be reused as a service part.

Command: "FAJ" (Effective during FAY)

Factory Menu: PANEL FACT => ETC => DIGITAL EEPROM: DELETE

PANEL INFORMATION

▼ (down)

▼ (down)

ETC. (+)

[set]

BACKUP DATA: NO OPRT

▼ (down)

DIGITAL EEPROM: NO OPRT

>> (right)

DIGITAL EEPROM: REPAIR

[set] (Press and hold for 5 seconds.)

• If the OB DIGITAL Assy of Unit 1 is mounted to be reused in Unit 2 to be repaired, and Unit 2 enters Standby mode, the adjustment data and histories stored in Unit 1 are erased, and those of Unit 2 are copied. Once overwritten, the original data will not be restored. After the Assy is replaced, be sure to enter Factory mode, using the remote control unit for servicing, and perform the procedures described herein. Or, before mounting an Assy to be reused as a service Assy, perform these procedures then mount it on the product to be repaired.

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3. In a case where the OB DIGITAL Assy is replaced with one for servicing because of a defective EEPROM on the original Assy and manual adjustments are to be performed

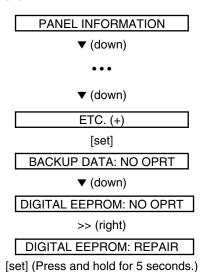
(In a case where no data are stored in the OB DIGITAL Assy or as backup, and the values that have been manually adjusted on Service Menu are to be applied as adjustment data for the panel unit)

Command: "UAJ" (Effective during FAY) Factory Menu

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• If the OB DIGITAL Assy with which adjustment data for the panel unit have been copied is mounted, the above procedures are not necessary after manual adjustment. (The indication "DIGITAL EEPROM: REPAIR" will not be displayed.)

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# ■ Clearing data on various histories when the OB DIGITAL Assy is replaced

Other than adjustment data for the panel unit, data to be backed up include the accumulated power-on time and a history of defective parts, which are data updated and stored in memory. Among those data, some are required to be cleared when the OB DIGITAL Assy is replaced for servicing, as shown below:

		Т	ype of servicing		RS-232C	
Item	Backed-up data	Panel replacement	Replacement of the power-supply block	Others	command	
Hour meter	Accumulated display	To be cleared	Not to be cleared	Not to be cleared	СНМ	
SD history	Point where an SD occurred and data on the hour meter	To be cleared	Not to be cleared	Not to be cleared	CSD	
PD history	Point where a PD occurred and data on the hour meter	To be cleared	Not to be cleared	Not to be cleared	CPD	
Pulse meter	Accumulated number of pulses of the Panel (5 blocks)	To be cleared (essential)	Not to be cleared	Not to be cleared	СРМ	
Accumulated number of power-ons	Accumulated number of RELAY_ONs	Not to be cleared	To be cleared (essential)	Not to be cleared	CPC	

#### Notes:

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1: With the PDP-436SXE/RXE and subsequent models, because various compensation functions use pulse-meter data for calculating compensation values, if related Assys are replaced, data on various histories must be cleared.

2: To clear data using RS-232C commands, after entering Factory mode (by sending FAY or PFY), issue a corresponding command. Otherwise, the command will not be executed.

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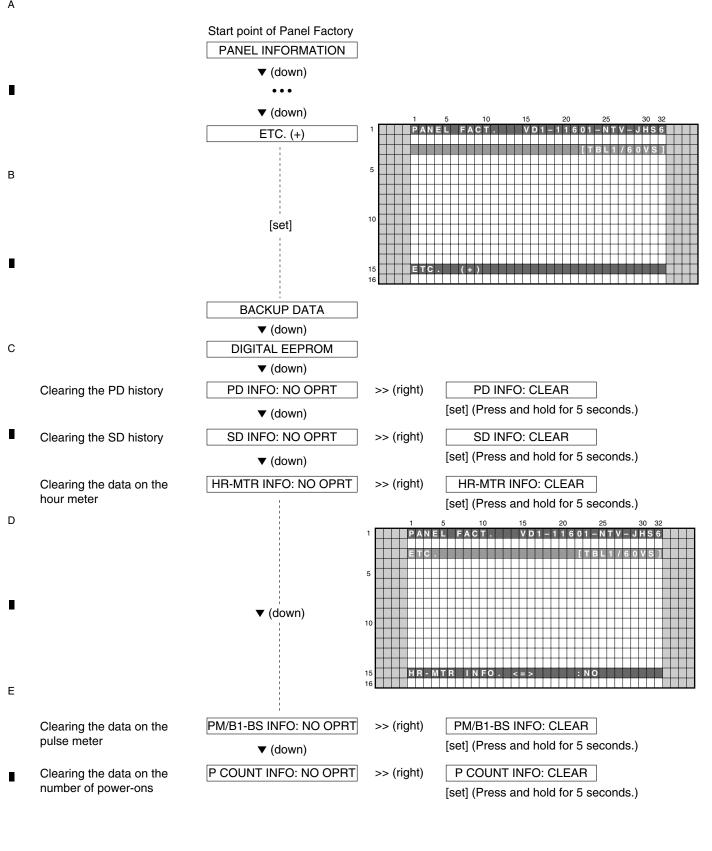
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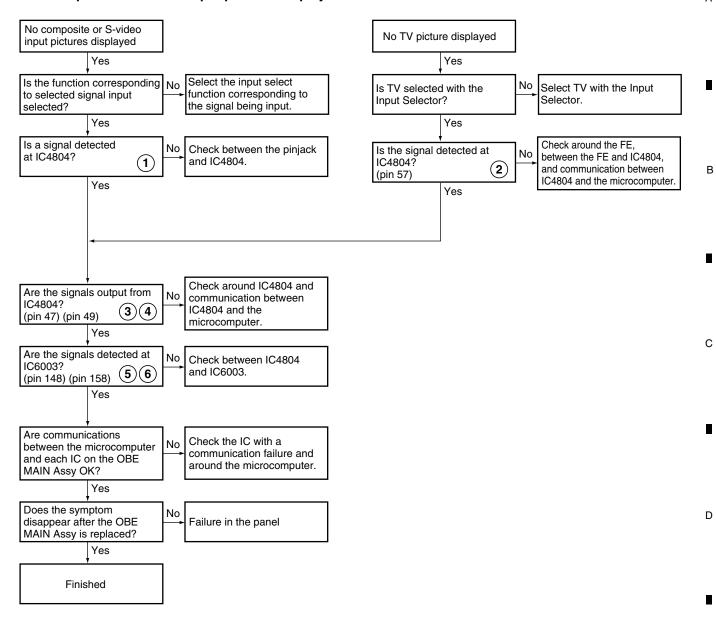
# ■ How to clear the history for each item on the Factory Menu



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#### No composite or S-video input pictures displayed



#### Note:

· Diagnosis points

#### **OBE MAIN ASSY**

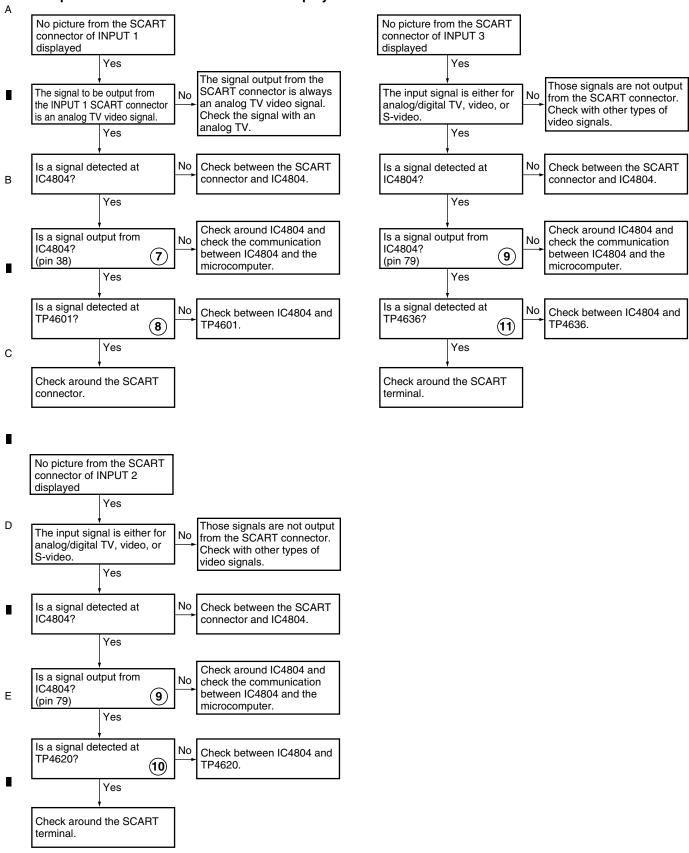
- For check the communication with the microcomputer, refer to the section 6.3 SERVICE FACTORY MODE.
- The encircled numbers denote measuring point in the Waveforms for Troubleshooting.

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#### No picture from the SCART connector displayed



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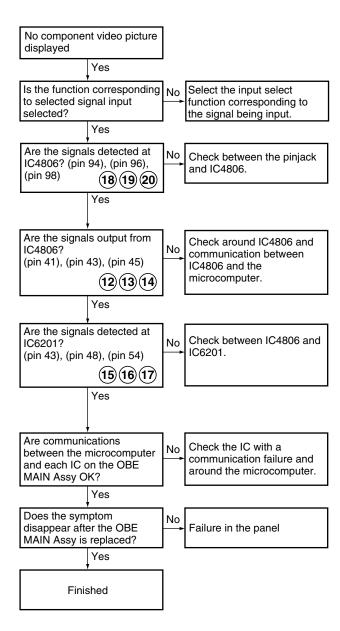
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## No picture displayed when an RGB signal is input

No picture displayed when No picture displayed when an RGB signal is input 1. an RGB signal is input 3. Yes Yes Is the function corresponding Select the input select Is the function corresponding to selected signal input function corresponding to to selected signal input the signal being input. selected? selected? Yes Yes Check the communications Are the signals input to Are the signals input to No No between the CN4003 and IC4806? (pin 2), (pin 4), IC4806? (pin 8), (pin 10), В IC4806, and CN4003 and (pin 6) (pin 12) 24) 25) 26) (21)(22)(23) the microcomputer. Yes Yes Are the signals output from Check around IC4806 and IC4806? No communication between (pin 30), (pin 32), (pin 34) IC4806 and the microcomputer. **27) 28) 29** Yes Are the signals detected at Check between IC4806 and IC6003? No (pin 160), (pin 164), (pin 172) IC6003. (30)(31)(32) Yes Are communications Check the IC with a No between the microcomputer communication failure and and each IC on the OBE around the microcomputer. MAIN Assy OK? Yes Does the symptom No D disappear after the OBE Failure in the panel MAIN Assy is replaced? Yes Finished

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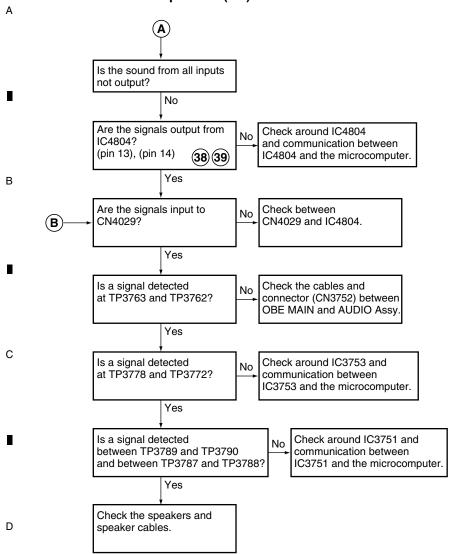
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#### • No sound from the speakers (2/2)



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Replace the DTB.

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# Waveforms for Troubleshooting

#### **OBE MAIN ASSY**

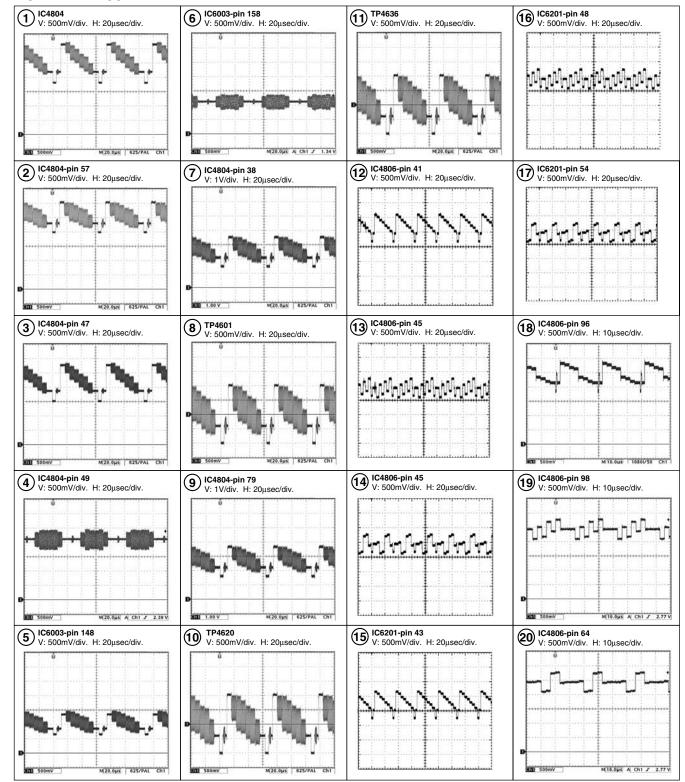
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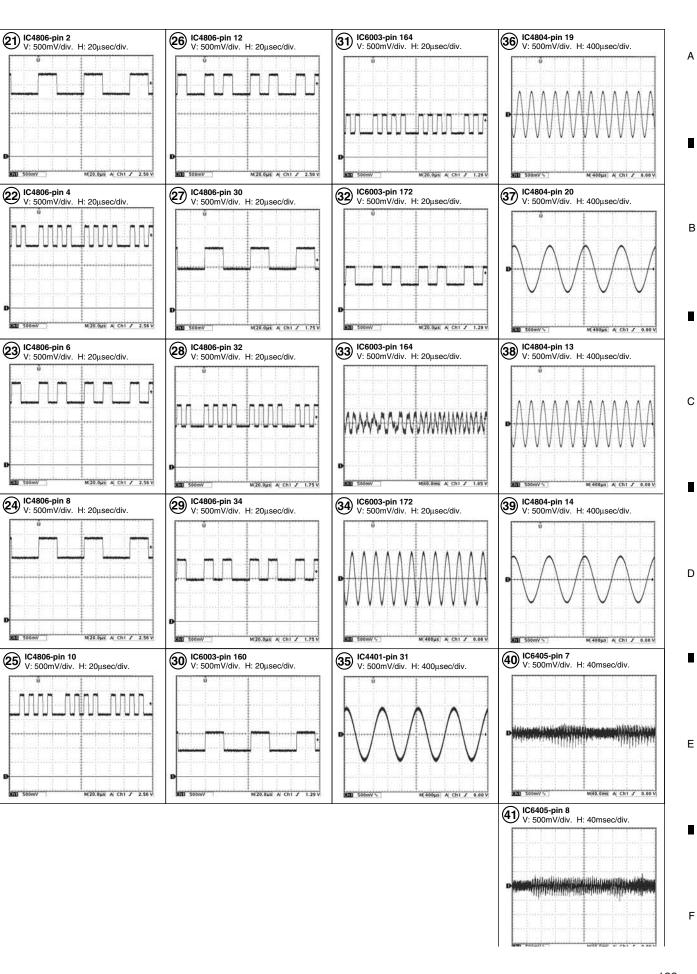


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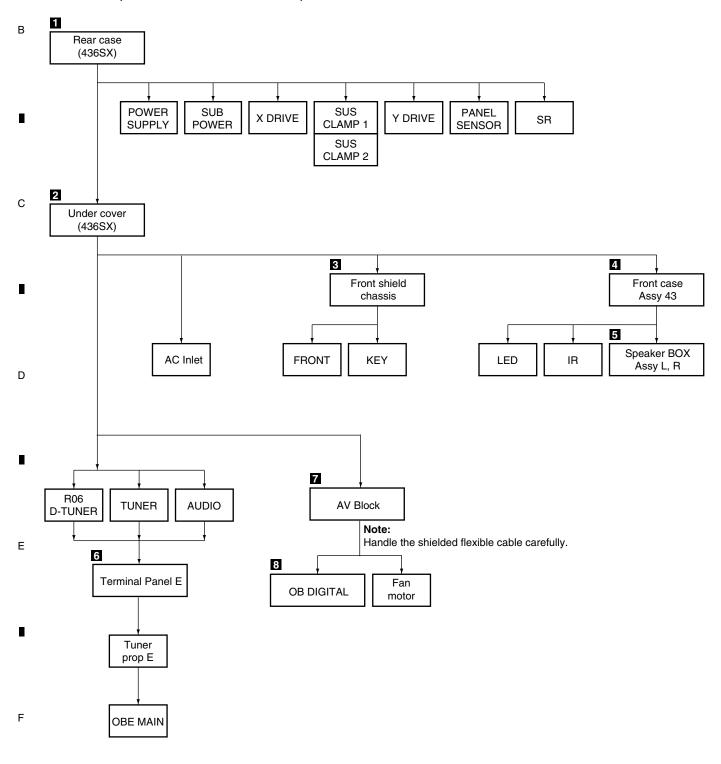
Note 1: Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

Note 2: The following flexible cables for servicing are necessary for diagnosis of boards:

• Flexible Extension cable for servicing (40P) (GGD1170)

# Chart of removal order for the main parts and boards

It is efficient to proceed with removal of the main parts and boards in the order shown in the chart below:

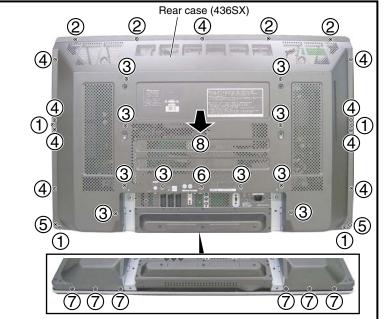


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# 1 Rear Case (436SX)

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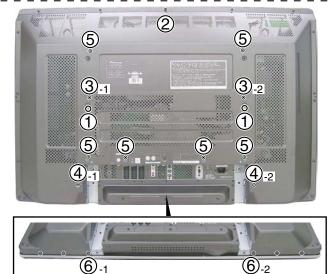
- (1) Remove the four screws. (ABA1332)
- (2) Remove the four screws. (BBZ40P180FTB)
- (3) Remove the ten screws. (AMZ30P060FTB)
- (4) Remove the nine screws. (TBZ40P080FTB)
- (5) Remove the two screws and two washers. (TBZ40P080FTB + WC40FTB)
- (6) Remove the one screw. (ABA1341)
- (7) Remove the six hexagon screws. (ABA1345)
- (8) Remove the rear case (436SX).



#### About reattachment

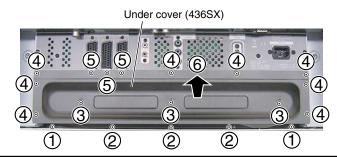
Because of the complex shape of the Rear case, it is difficult to align the screw holes when reattaching the Rear case. For easy reattachment, be sure to install the screws for the Rear case in the order indicated in the photo. After securing those screws in place, the other screws and washers can be reattached in any order.

- $(oldsymbol{1})$  Engage the two Positioning Pins.
- (2) One screw (TBZ40P080FTB)
- (3) Two screws (AMZ30P060FTB)
- (4) Two screws (AMZ30P060FTB)
- (5) Six screws (AMZ30P060FTB)
- 6 Two hexagon screws (ABA1345)



# 2 Under Cover (436SX)

- 1) Remove the two screws. (ABZ30P080FTB)
- (2) Remove the three screws. (APZ30P100FTB)
- (3) Remove the three screws. (ABA1340)
- (4) Remove the eight screws. (AMZ30P060FTB)
- (5) Remove the three screws. (BPZ30P080FTB)
- (6) Remove the under cover (436SX).

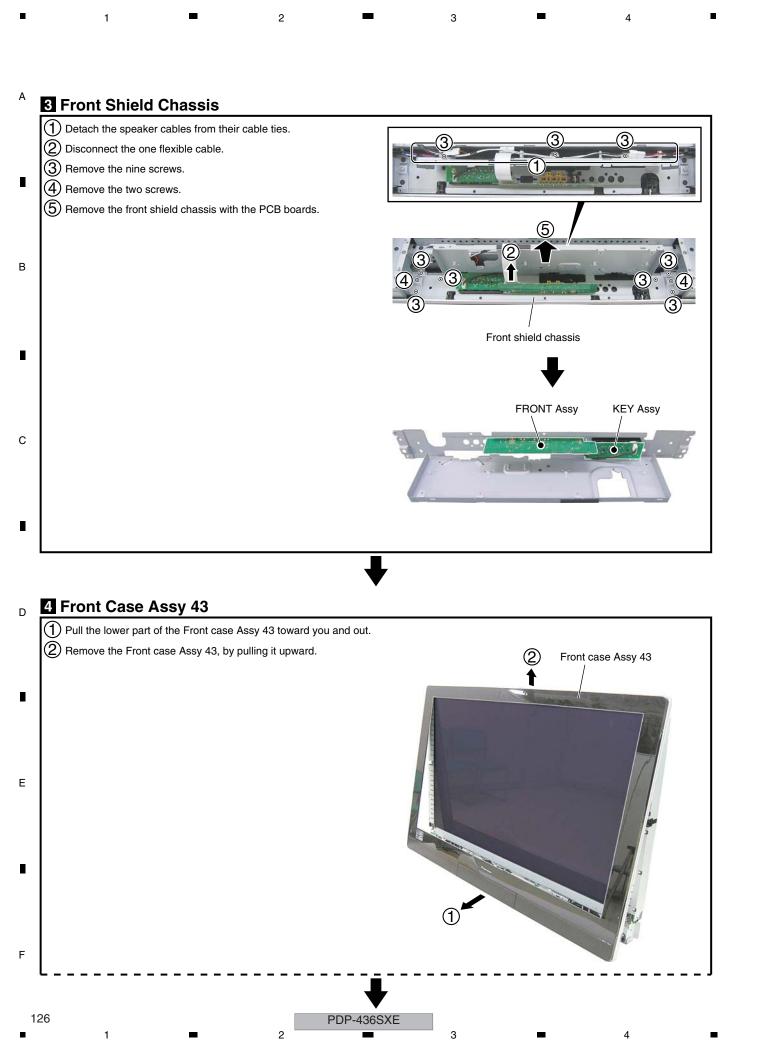


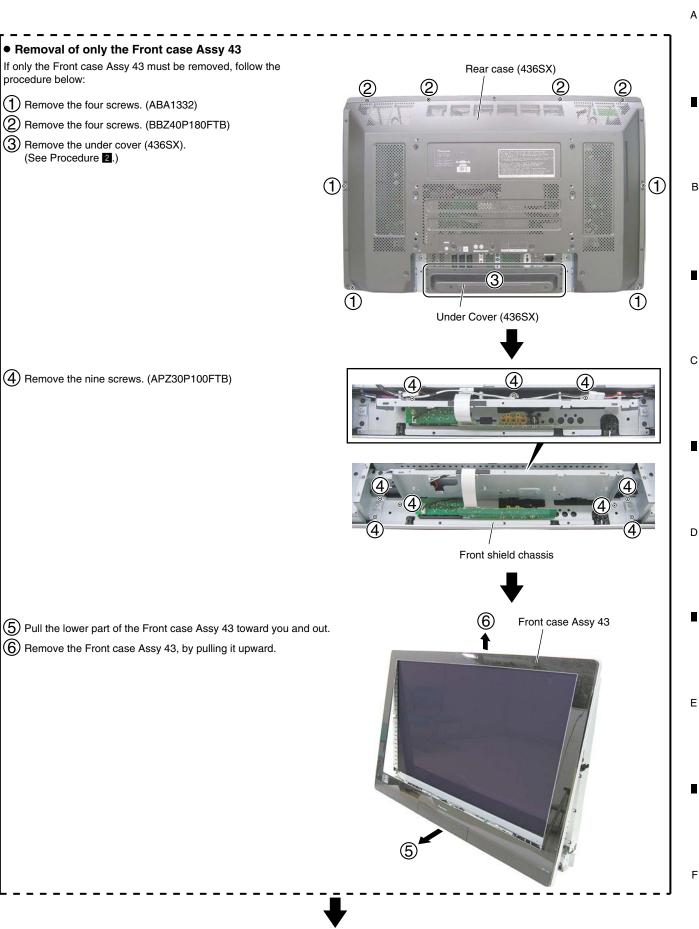
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About reattachment of the Front case Assy 43

When reattaching the Front case Assy with the Rear case attached, be sure to install the screws in the order described below:

- 1 Two screws (ABA1332)
- 2 Four screws (BBZ40P180FTB)
- (3) Nine screws (APZ30P100FTB)
- 4 Two screws (ABA1332)
- Under cover (436SX) (See Procedure 2.)

#### Note:

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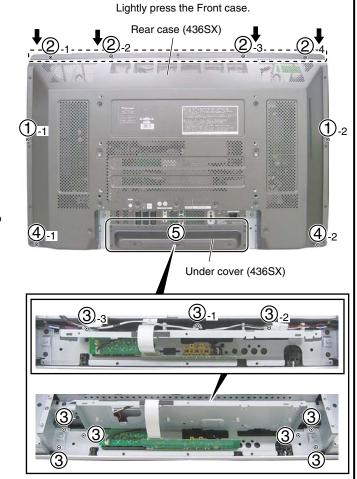
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While the screws in Steps ① and ② are being installed, the Front case tends to shift upward. In order to not allow any undesired gap between the Rear case and the Front case, while tightening the screws, lightly press and hold the four locations near the screws indicated with arrows in the photo at right.



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# ● Speaker BOX Assy R

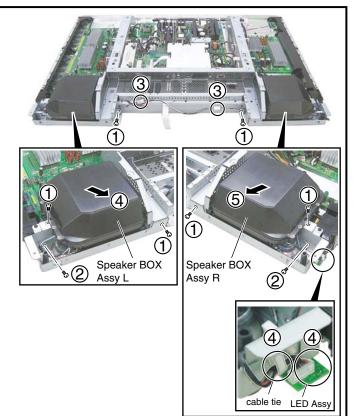
- $(\mathbf{1})$  Remove the three screws.
- 2 Remove the one screw.

(As this screw is made of stainless steel, it does not cling to a magnetized screwdriver. Care must be taken not to drop and lose it.)

- (3) Disconnect the speaker cable.
- $\stackrel{\textstyle ullet}{4}$  Detach the cable from their cable ties and disconnect the cable.
- (5) Remove the speaker BOX Assy R.

#### Speaker BOX Assy L

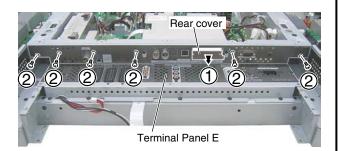
- 1 Remove the three screws.
- (2) Remove the one screw.
  (As this screw is made of stainless steel, it does not cling to a magnetized screwdriver. Care must be taken not to drop and lose it.)
- (3) Disconnect the speaker cable.
- $\stackrel{\textstyle ullet}{4}$  Remove the speaker BOX Assy L.

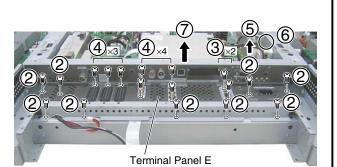




## 6 Terminal Panel E

- 1 Remove the rear cover.
- Remove the 15 screws.
- Remove the two screws.
- (4) Remove the seven screws.
- (5) Disconnect the connector. (SR connector)
- 6 Disconect the connector. (AC inlet)
- (7) Remove the terminal panel E.





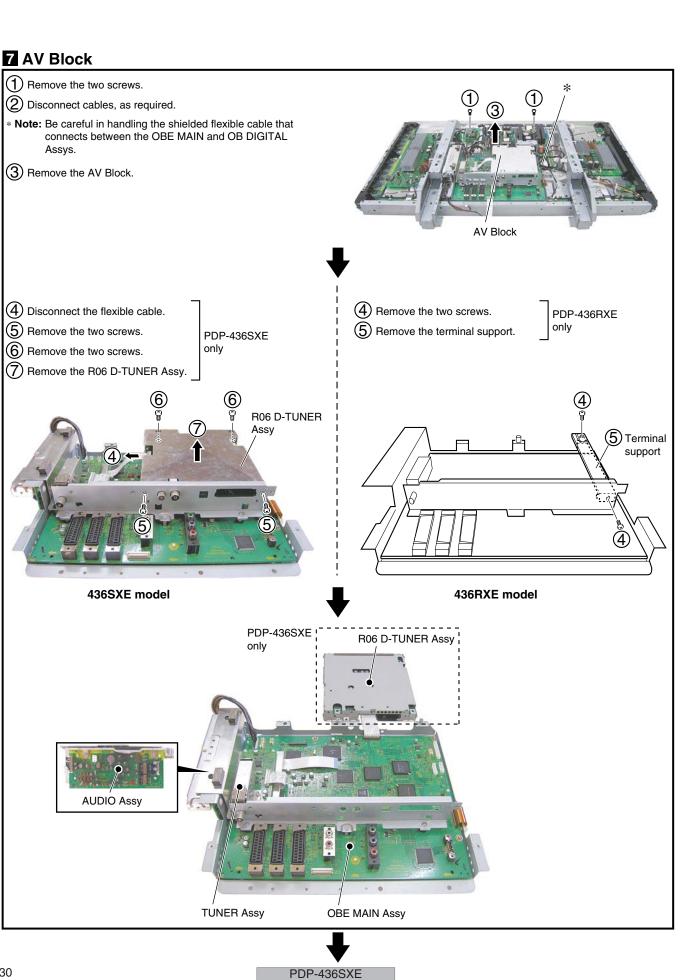


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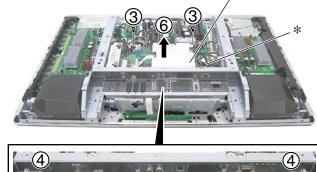
# 8 Diagnosis and replacement of the OB DIGITAL Assy

For diagnosis of the OB DIGITAL Assy, it is not necessary to remove all the parts mentioned above. To perform a diagnosis and replacement, follow the procedures below:

Remove the rear case (436SX). (See the procedure ■.)

Remove the under cover (436SX). (See the procedure 2.)

- (3) Remove the two screws.
- (4) Remove the nine screws.
- 5 Disconnect cables, as required.
- \* Note: Be careful in handling the shielded flexible cable that connects between the OBE MAIN and OB DIGITAL Assys.
- 6 Remove the AV Block with the terminal panel E.



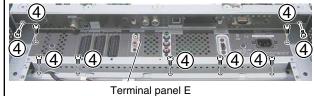
AV Block



**Diagnosis** 



Replacement



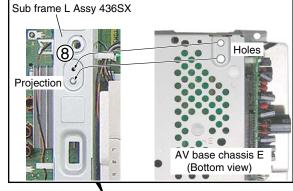
- The Dress the units, as shown in the photo.
- (8) Install the screw.



Diagnosis

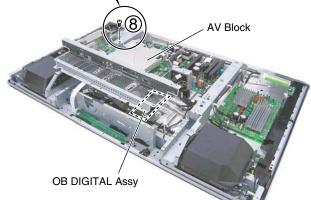
- Disconnect all cables on OB DIGITAL Assy.
- 8 Replace OB DIGITAL Assy..





#### Note

In this state, it is not possible to check the front inputs. If checking of the front inputs is necessary in this state, remove Terminal panel E then connect the Flexible Extension cable for servicing (GGD1170) between CN4001 on the OBE MAIN Assy and CN7804 on the FRONT Assy.



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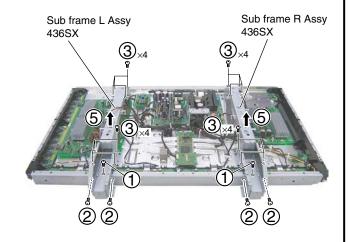
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# 9 Sub Frame L and R Assy 436SX ~ Front Chassis H Assy 436SX

## ● Sub Frame L and R Assy 436SX

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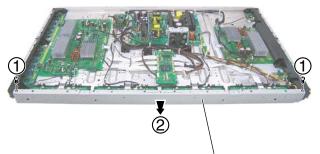
- $\bigcirc$  Remove the one screw each from the sub frame L and R Assys.
- $\bigcirc$  Remove the two screws each from the L and R Assys.
- Remove the eight screws each from the L and R Assys.
- 4 Detach the cables from their cable ties, as required.
- (5) Remove the sub frame L and R Assys 436SX.





## • Front Chassis H Assy 436SX

- 1 Remove the two screws.
- 2 Remove the front chassis H Assy 436SX.



Front chassis H Assy 436SX

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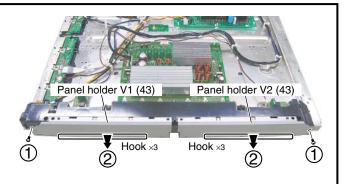
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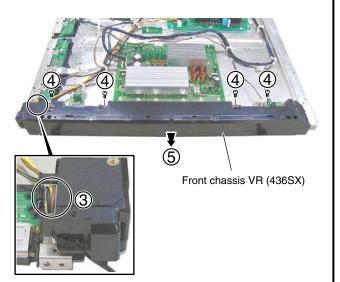


- 1 Remove the two screws.
- Remove the panel holder V1 (43) and V2 (43)s. (Unhook the six hooks.)



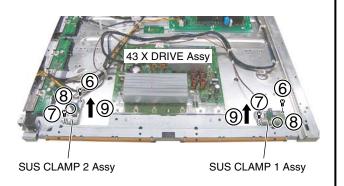


- ${ \mathfrak{S} }$  Release the housing wire.
- (4) Remove the four screws.
- (5) Remove the front chassis VR (436SX).





- 6 Remove the two screws.
- (7) Remove the two screws.
- 8 Unhook the two PCB spacers.
- Remove the SUS CLAMP 1 and 2 Assys.



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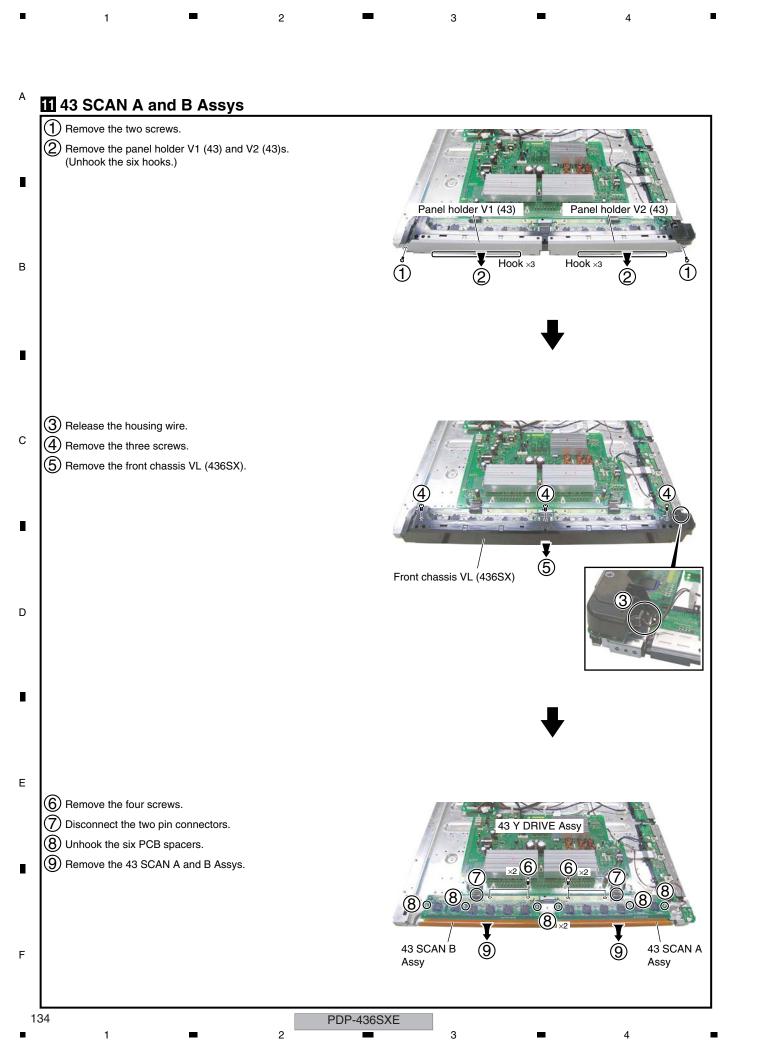
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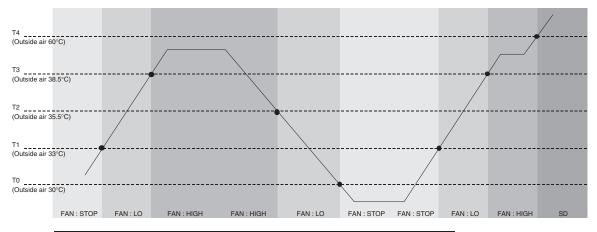
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# 7.2.1 SPECIFICATION ABOUT THE THERMAL PROTECTION

\* The change of HI / LO have hysterisis curve below.

#### Reading value of the season and FAN drive.



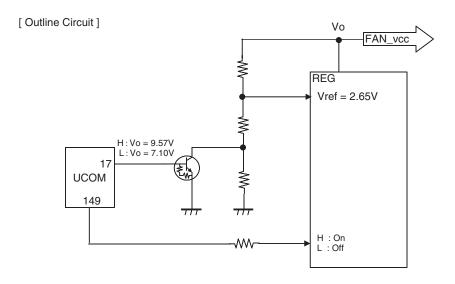
	Assign		AD value (Thermister) 8 bit	AD value (Thermister) 10 bit	Aime (Sensor position)	Aime (Outside air of Unit)
76pin	TEMP2	T4 setting	105	420	60°C	55°C
		T3 setting	131	524	46°C	38.5°C
		T2 setting	139	556	41°C	38.5°C
		T1 setting	141	564	40°C	33°C
		T0 setting	149	596	35.5°C	30°C

This model controls the FAN drive by MAIN u-com pin 149 (FAN ON / OFF) pin 17 (Cange of FAN control voltage), not by the traditional PWM.

ı	Assign	FAN: HIGH	FAN : LO	STOP
	IC5206 149pin FAN_CONT	Н	Н	L
	IC5206 17pin FAN_CONT_POW	Н	L	-

## Set State and FAN Drive

POWER F	PSW1	State	Control	FAN Operation
ON ON ON OFF	N D	DT_REC	According to the reading value of above table sensor. According to the reading value of above table sensor. FAN CONT	` ,



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# Power supply and DC-DC converter

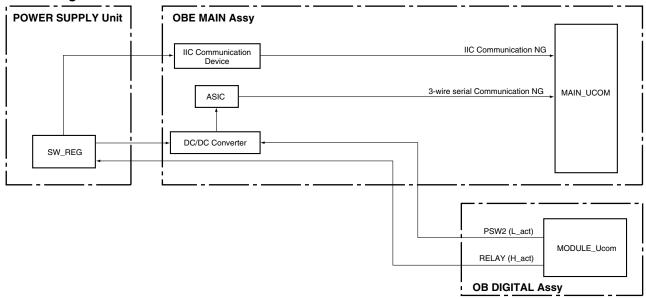
## Circuit diagram

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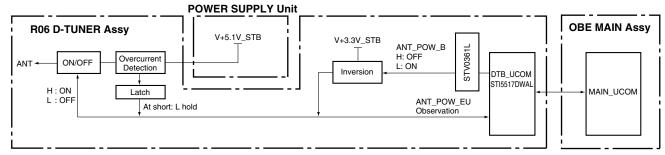
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# Power supply for DTB Antenna (436SXE Model Only)

#### Circuit diagram



#### Specifications for port monitoring

Port Name	SD/PD Indication	Assigned Pin	Active
ANT_POW_EU	DTB antenna short-circuit	IF_37	Warning with L

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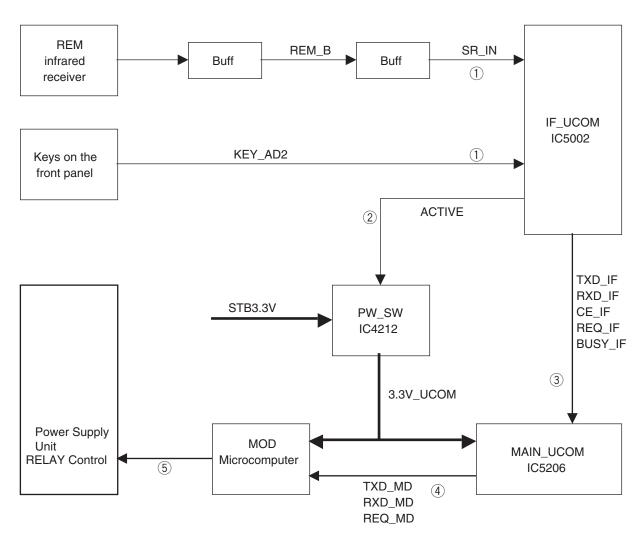
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# POWER ON SEQUENCE



- ① : The signal from the remote control unit (or a key signal) is input to the IF microcomputer.
- ②: The IF microcomputer supplies the power to the main microcomputer and MOD microcomputer.
- ③: The IF microcomputer transmits operation data from the remote control unit (or keys) to the main microcomputer.
- ④: The main microcomputer issues a startup command to the MOD microcomputer.
- ⑤: The MOD microcomputer controls the relay of the PDP Power supply unit and starts the power-on sequence of the PDP.

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7.3 IC

• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

#### • List of IC

MB91305PMC-G-BND, M30620FCPGP-U5C, R2S11002AFT, R2S11001FT, UPD64015AGM-UEU AD9985KSTZ-110, SII9021CTU, AXF1149, SN755870PZT, AXF1143, AXF1145, TC74VHC08FTS1, AXF1144, M62334FP, TC74VHC123AFTS1, PST3610UR, PEG122C, NJW1183GK1

# ■ MB91305PMC-G-BND(OBE MAIN ASSY:IC5206)

• MAIN Microcomputer

#### Pin Function

В

No.	Pin Name	Signal Name	I/O	Function	Active
1	VCEE			Vcc (+3.3V)	
2	VSS			GND	
3	VCCI			Vcc (+1.8V)	
4	D24			External Data-bus	
5	D25			External Data-bus	
6	D26			External Data-bus	
7	D27			External Data-bus	
8	D28			External Data-bus	
9	D29			External Data-bus	
10	D30			External Data-bus	
11	D31			External Data-bus	
12	VCEE			Vcc (+3.3V)	
13	VSS			GND	
14	VCCI			Vcc (+1.8V)	
15	RDX			External bus lead strobe	
16	WR0X/DQMUU			External bus lead strobe	
17	WR1X/DQMUL/P30	FAN_CONT_POW	0	Fan output power control (Fan Vcc 7.1/9.5 change)	Н
18	CS0X/P31			External bus chip enable	
19	CS1X/P32	CE_IF	0	3 wire serial communication with UIF ucom_Enable old IF_CE	L
20	CS4X/P33	A_MUTE	0	MDR audio output mute	Н
21	CS5X/P34	AM_MUTE	0	Audio Monitor output mute	Н
22	CS6X/P35		0		
23	CS7X/P36		0		
24	RDY/P37	BUSY_IC3	ı	3 wire serial communication with Carrera - Busy Old IC3_BUSY.	Н
25	BGRNTX/P40	BUSY_IF	I	3 wire serial communication with UIF ucom-Busy - Old IF_BUSY.	Н
26	BRQ/P41	WE_IC3	0	UART path switch for Carrera	L
27	SYSCLK/P42	WATCH_DOG	0	Checking terminal with TP	-
28	MCLKE/P43	PSW1	0	Power SW1 (DC-DC converter output mute)	L
29	MCLK/P44	SD_DET	0	Checking terminal with TP	-
30	ASX/LBAX/SRASX/P45	RST_IF	0	Reset input terminal for IF ucom (Not used)	Н
31	BAAX/SCASX/P46	WE_ROM	0	Write protect of EDID-ROM for PC	Н
32	WRX/SWRX/P47	CE_IC3	0	3 wire serial communication with Carrera-Enable Old IC3_CE	L
33	VCEE			Vcc (+3.3V)	
34	VSS			GND	
35	VCCI			Vcc (+1.8V)	
36	A00			N.C. setting	
37	A01			Eternal address bus	
38	A02			Eternal address bus	
39	A03			Eternal address bus	
40	A04			Eternal address bus	

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No.	Pin Name	Signal Name	I/O	Function	Active
41	A05			Eternal address-bus	
42	A06			Eternal address-bus	
43	A07			Eternal address-bus	
44	A08			Eternal address-bus	
45	A09			Eternal address-bus	
46	A10			Eternal address-bus	
47	A11			Eternal address-bus	
48	A12			Eternal address-bus	
49	A13			Eternal address-bus	
50	A14			Eternal address-bus	
51	A15			Eternal address-bus	
52	VCEE			Vcc (+3.3V)	
53	VSS			GND	
54	VCCI			Vcc (+1.8V)	
55	A16/P50			Eternal address-bus	
56	A17/P51			Eternal address-bus	
57	A18/P52			Eternal address-bus	
58	A19/P53			Eternal address-bus	
59	A20/P54			Eternal address-bus	
60	A21/P55				
61	A22/P56	ELITE_DET	ı	SXE/RXE discrimination	
62	A23/P57	APPLI_ON	ı	Detection of ASIC testing connection	L
63	VCEE			Vcc (+3.3V)	
64	Х0		ı	Clock output	
65	VSS			GND	
66	X1		0	Clock output	
67	VCCI			Vcc (+1.8V)	
68	INTX			External reset input	
69	MD0		ı	Operation mode setting L_fixed	
70	MD1		ı	Operation mode setting H_fixed (No USB)	
71	MD2		ı	Operation mode setting normal_L, writing_H	
72	MD3		ı	Operation mode setting L_fixed	
73	AVCC			Vcc for A/D	
74	AVRH			Reference Vcc for A/D	
75	AVSS/AVRL			GND for A/D	
76	AN0	TEMP2	ı	[A/D] Thermal sensor outside air temperature	AD
77	AN1			·	AD
78	AN2/PF0	MODE	ı	[A/D] Operation mode discrimination	AD
79	AN3/PF1	AFT1	ı	[A/D] AFT input 1	AD
80	AN4/PF2				
81	AN5/PF3				
82	AN5/PF4				
83	AN7/PF5				
84	AN8/PF6	CE_IC6	0	3 wire serial communication with Triton-Enable (Not Used)	L
85	AN9/PF7	REQ_MVDEC	ı	Change information of various detecting result like frequecy determination	L
86	ICS0	_		Status output for development tool	
87	ICS1			Status output for development tool	

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No.	Pin Name	Signal Name	I/O	Function	Active
88	ICS2			States output for development tool	
89	ICD0			States output for development tool	
90	ICD1			States output for development tool	
91	ICD2			States output for development tool	
92	ICD3			Break for development tool	
93	IBREAK			Clock for development tool	
94	ICLK			Reset for development tool	
95	TRSTX			Reset for development tool	
96	VCEE			Vcc (+3.3V)	
97	VSS			GND	
98	VCCI			Vcc (+1.8V)	
99	SIN0/P60	RXD_WR	I	External PC/FLASH ROM writer / PC card sharing	L
100	SOUT0/P61	TXD_WR	0	External PC/FLASH ROM writer / PC card sharing	L
101	SCK0/P62	CLK_WR	ı	Communication with FLASH ROM writer-Clock input	L
102	SIN1/P63	RXD_DT	I	UART communication with degital tuner-data input	L
103	SOUT1/P64	TXD_DT	0	UART communication with degital tuner-data output	L
104	SCK1/P65		I	Not Used	
105	SIN2/P70	RXD_IF	1	3 wire/serial communication with UIF-data input	L
106	SOUT2/P71	TXD_IF	0	3 wire/serial communication with UIF-data output	L
107	SCK2/P72	CLK_IF	0	3 wire/serial communication with UIF-clock output	L
108	SIN3/P73	RXD_MD	ı	UART communication with module ucom-data input	L
109	SOUT3/P74	TXD_MD	0	UART communication with module ucom-data output	L
110	SCK3/P75	RST_ASIC	0	Forced reset of ASIC	L
111	SIN4/P80	RXD_IC3	ı	3 wire serial communication with Carrera-data input	L
112	SOUT4/P81	TXD_IC3	0	3 wire serial communication with Carrera-data output	L
113	SCK4/P82	CLK_IC3	0	3 wire serial communication with Carrera-clock input	L
114	SCL0/P83	SCL_AV3	0	IIC communication for operating device at function STB-clock output	L
115	SDA0/P84	SDA_AV3	I/O	IIC communication for operating device at function STB-data in/out	L
116	SCL1/P90	SCL_MA	0	IIC communication for operating device at function STB-clock output	L
117	SDA1/P91	SDA_MA	I/O	IIC communication for operating device at function STB-data in/out	L
118	SCL2/P92	SCL_TXT	0	IIC communication for TELE TEXT-clock output	L
119	SDA2/P93	SDA_TXT	I/O	IIC communication for TELE TEXT-data in/out	L
120	SCL3/P94		0		
121	SDA3/P95		0		
122	SCL4/P96	SCL_EP	0	IIC communication for EEPROM-clock output	L
123	SDA4/P97	SDA_EP	I/O	IIC communication for EEPROM-data in/out	L
124	VCEE	_		Vcc (+3.3V)	
125	VSS			GND	
126	VCCI			Vcc (+1.8V)	
127	NMIX				
128	INT0/PA0	RST2	ı	(Interrupt) Detection of ASIC Power RSTIC	L
129	INT1/PA1	RST3	1	(Interrupt) Detection of AC temporary black out	L
130	INT2/PA2	HDMI_INT	l I	(Interrupt) Interruption of HDMI Infopacket change (HDMI①)	L
131	INT3/PA3	REQ_IF	1	Communication demand from UIF ucom	Н
132	INT4/PA4	REQ_IC3	1	Communication demand from Carrera (sig-mode change)	Н
133	INT5/PA5	_	0	backup (interrupt)	
134	INT6/PA6	REQ_MD	ī	Communication demand from module ucom	Н

No.	Pin Name	Signal Name	I/O	Function	Active
135	INT7/PA7	RST_TXT		Reset detection of CCD ucom / M2 ucom	L
136	INT8/PB0				
137	INT9/PB1				
138	INT10/ATRG/PB2				
139	INT11/FRCK/PB3				
140	INT12/ICU0/PB4	SCL_AIR	ı	IIC comunication for Analog tuner only-clock output	L
141	INT13/ICU1/PB5	SDA_AIR	0	IIC comunication for Analog tuner only-data in/out	L
142	INT14/ICU2/PB6	REQ_PEAK_M	ı	Communication demand from Carrera (peak detection of Silvia side inside Triton)	) H
143	INT15/ICU3/PB7	REQ_PEAK_S	ı	Communication demand from Carrera (peak detection of SCarrera side inside Triton)	Н
144	VCEE			Vcc (+3.3V)	
145	UDP			USB + terminal (Not Used)	
146	UDM			USB - terminal (Not Used)	
147	VSS			GND	
148	VCCI			Vcc (+1.8V)	
149	PPG0/PC0	FAN_CONT	0	FAN power ON/OFF control	Н
150	PPG1/PC1				
151	PPG2/PC2	TXT-WRB	ı	BUSY information when rewviting TXT (old TXT_WKP) FLASH	
152	PPG3/PC3				
153	TOUT0/TRG0/PC4	WE_MD	0	UART path switch for module ucom	L
154	TOUT1/TRG1/PC5	DT_FNC	0	Buffer OFF control for/digital tuner relay board at function STB	L
155	TOUT2/PC6	FAN_NG1	ı	NG signal / detection from FAN	Н
156	RIN/PC7	WE_DT	0	UART path switch for / digital tuner	L
157	DREQ0/PD0				
158	DACK0/PD1	DT_DET	0	Presence detection of DT	L
159	DEOP0/PD2	RST_DT	ı	Output for digital tuner reset	L
160	DREQ1/TIN0/PD3	AIR1_H	ı	Reload timer input (terrestrial H frequency count1)	L
161	DACK1/TIN1/PD4				
162	DEOP1/TIN2/PD5	PD5	ı	Detection of writing sequence from FLASH ROM (synchronous ⇔ asynchronous)	) H
163	DREQ2/TRG1/PE0	WE_TXT	0	UART path switch for text ucom (CC & TELE TEXT)	Н
164	DACK2/TRG2/PE1	DEMP	0	HDMI Audio deemphasis band compeusation	Н
165	DEOP2/TRG3/PE2	EEPRST	0	Reset SW for EEPROM power	L
166	VCEE			Vcc (+3.3V)	
167	VSS			GND	
168	VCCI			Vcc (+1.8V)	
169	D16/P20			External data bus	
170	D17/P21			External data bus	
171	D18/P22			External data bus	
172	D19/P23			External data bus	
173	D20/P24			External data bus	
174	D21/P25			External data bus	
175	D22/P26			External data bus	
176	D23/P27			External data bus	

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# ■ M30620FCPGP-U5C(OB DIGITAL ASSY:IC3151) • MODULE Microcomputer

## Pin Function

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	n Function				
No.	Pin Name	Signal Name	1/0	Function	Active
1	P94//DA1/TB4IN	V_SYNC	ı	V synchronous detection	L
2	P93/DA0/TB3IN		0		
3	P92/TB2IN/SOUT3	TXD_SQ	0	3 serial communication with AsiRA-data send	
4	P91/TB1IN/SIN3	RXD_SQ	I	3 serial communication with AsiRA-data receive	
5	P90/TB0IN/CLK3	CLK_SQ	0	3 serial communication with AsiRA-clock output	
6	BYTE	BYTE	ı	(Connected to GND)	
7	CNVSS	CNVSS	I	Terminal for processor mode setting (pull-down)	
8	P87/XCIN				
9	P86/XCOUT				
10	*RESET	RST_MD	I	Reset input	L
11	XOUT	XOUT	0	Output for main clock	-
12	VSS	VSS	-	GND	-
13	XIN	XIN	I	Input for main clock	-
14	VCC1	VCC1	-	Vcc-STB 3.3V	-
15	P85/*NMI	NMI	ı	(Pull-up)	
16	P84/*INT2				
17	P83/*INT1				
18	P82/*INT0	RST2	ı	[Interrupt] Astra reset detection	L
19	P81/TA4IN/*U				L
20	P80/TA4OUT/U				Н
21	P77/TA3IN				
22	P76/TA3OUT				
23	P75/TA2IN/*W	STOP_SQ		Wathcdog of ASTRA (Not Used)	
24	P74/TA2OUT/W				
25	P73/*CTS2/*RTS2/TA1IN/*V				
26	P72/CLK2/TA1OUT/V	EEPRST	0	Power SW for EEPROM	Н
27	P71/RXD2/SCL2/TA0IN/TB5IN	E_SCL	0	IIC clock output for EEPROM	
28	P70/TXD2/SDA2/TA0OUT	E_SDA	I/O	IIC data in/out for EEPROM	
29	P67/TXD1/SDA1	TXD	0	Communication with FLASH ROM writer-data send	
30	P66/RXD1/SCL1	RXD	I	Communication with FLASH ROM writer-data receive	
31	P65/CLK1	SCLK	I	Communication with FLASH ROM writer-clock input	
32	P64/*CTS1/*RTS1/CLKS1	BUSY	0	Communication with FLASH ROM writer-busy output	?
33	P63/TXD0/SDA0	TXD_MAIN	0	UART communication with main ucom (external PC) -data send	
34	P62/RXD0/SCL0	RXD_MAIN	I	UART communication with main ucom (external PC) -data receive	
35	P61/CLK0				
36	P60/*CTS0/*RTS0	REQ_MD	0	Communication demand to main ucom	Н
37	P57/*RDY/CLKOUT		0		
38	P56/ALE		0		
39	P55/*HOLD	EPM	ı	Terminal for FLASH re-writing mode setting	
40	P54/*HLDA	DRF_B	0	Large-power line OFF	L

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No.	Pin Name	Signal Name	I/O	Function	Active
41	P53/BCLK	RELAY	0	Power ON control output	Н
42	P52/*RD		0		
43	P51/*WRH/*BHE		0	Terminal for FLASH re-writing mode setting	
44	P50/*WRL/*WR	CE	ı		
45	P47/*CS3	PSIZE	ı	Panel size discrimination	H:43
46	P46/*CS2	SCL	0	IIC clock output	Н
47	P45/*CS1	SDA	I/O	IIC data in/out	Н
48	P44/*CS0	PD_MUTE_B	0	Muting the power-down output to power Assy	L
49	P43/A19				
50	P42/A18				
51	P41/A17	H_DET_B	ı	H existence discrimination	L
52	P40/A16		0		
53	P37/A15	RST_SQ	0	Forced reset of ASTRA (100ms after releasing RST2)	L
54	P36/A14	CE_SQ	0	Enable for ASTRA communication	L
55	P35/A13	BUSY_SQ	ı	BUSY input for ASTRA communication	Н
56	P34/A12	FUT1_SQ	0	Communication reseive to ASTRA	
57	P33/A11	FUT2_SQ	0	Communication reseive to ASTRA	
58	P32/A10		0		
59	P31/A9	WE_SQ	0	Communication path selection control when rewriting ASTRA	Н
60	VCC2	VCC2	-	Vcc-STB 3.3V	-
61	P30/A8(/-/D7)	PD_TRG	ı	PD detection	L
62	VSS	VSS	-	GND	-
63	P27/AN27/A7(/D7/D6)	SCAN_PD	ı	PD for SCAN reduced voltage	Н
64	P26/AN26/A6(/D6/D5)	YDRV_PD	I	Y drive PD signal	Н
65	P25/AN25/A5(/D5/D4)	YSUS_PD	ı	Y-SUSPD signal	Н
66	P24/AN24/A4(/D4/D3)	YDCDC_PD	ı	Y drive DCDC converter PD signal	Н
67	P23/AN23/A3(/D3/D2)	SCN5V_PD	ı	PD for SCAN 5V reduced voltage	Н
68	P22/AN22/A2(/D2/D1)	XSUS_PD	ı	X drive PD signal	Н
69	P21/AN21/A1(/D1/D0)	XDCDC_PD	ı	X drive DCDC converter PD signal	Н
70	P20/AN20/A0/(/D0/-)	XDRV_PD	ı	X drive PD signal	Н
71	P17/D15/*INT5		0		
72	P16/D14/*INT4		I		
73	P15/D13/*INT3		I		
74	P14/D12				
75	P13/D11	A_MUTE	0	Audio mute	Н
76	P12/D10	A_NG	ı	Audio NG detection	L
77	P11/D9	PSW2	0	Various power output mute at function STB	Н
78	P10/D8	STB_SW	0	Stand-by setting of Audio AMP	L
79	P07/AN17/D7	ADRS_PD	I	Adress PD	Н
80	P06/AN16/D6				
81	P05/AN15/D5				
82	P04/AN14/D4				
83	P03/AN13/D3				
84	P02/AN12/D2	DDC_PD	I	DC-DC converter PD signal	Н
85	P01/AN11/D1	PS_PD	ı	PD signal inside Power Assy	Н

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I	No.	Pin Name	Signal Name	I/O	Function	Active
	86	P00/AN10/D0	SQ_PD	I	PD for ASTRA drive halt	Н
	87	P107/AN07/*KI3		0		
	88	P106/AN06/*KI2				
3	89	P105/AN05/*KI1		0		
,	90	P104/AN04/*KI0				
,	91	P103/AN03		0		
,	92	P102/AN02	TEMP1	- 1	[A/D] AD/input for thermal sensor	
,	93	P101/AN01	MODE	ı	[A/D] Terminal for seeting operation mode	
9	94	AVSS	AVSS	-	GND for A/D input	-
9	95	P100/AN00				
[	96	VREF	VREF	-	Relererce voltage for A/D input	-
9	97	AVCC	AVCC	-	Vcc for A/D input-STB 3.3V	-
9	98	P97/*ADTRG/SIN4		0		
,	99	P96/ANEX1/SOUT4		0		
1	100	P95/ANEX0/CLK4		0		

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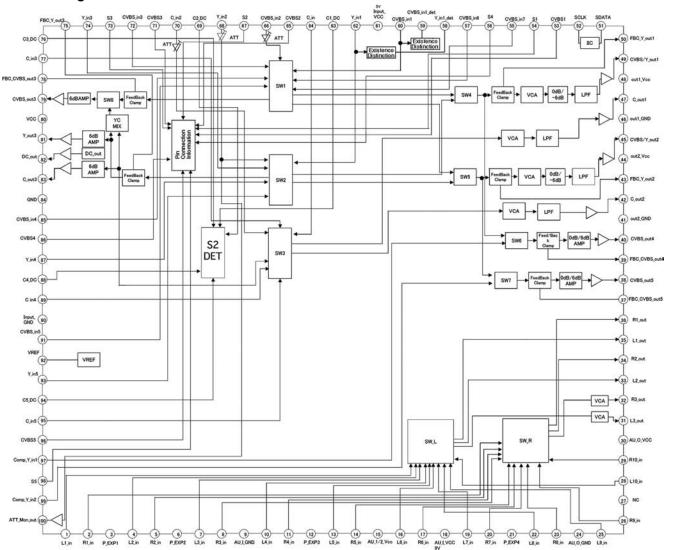
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# ■ R2S11002AFT (OBE MAIN ASSY: IC4804)

• AV SW

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### Block Diagram



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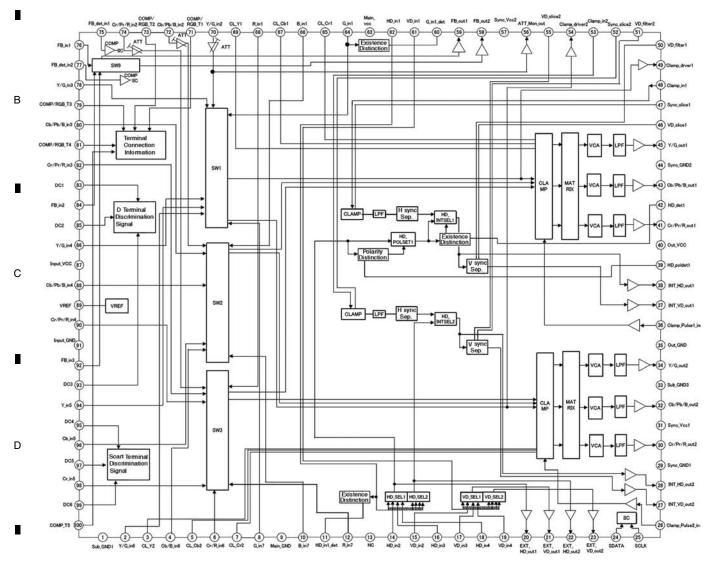
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# ■ R2S11001FT (OBE MAIN ASSY: IC4806)

• Component SW IC

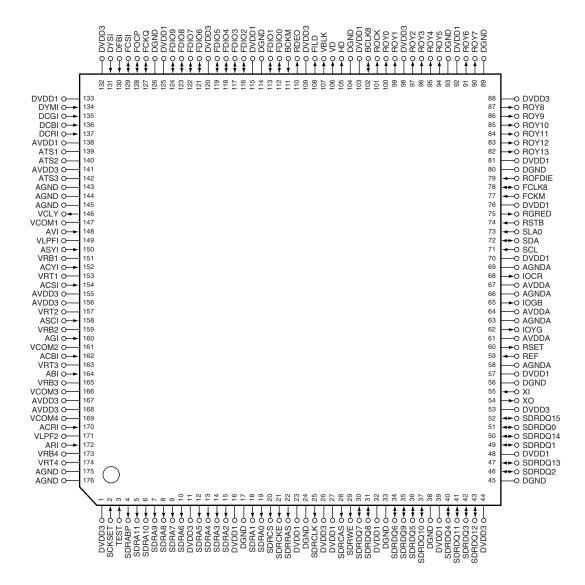
### Block Diagram



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#### Pin Arrangement (Top view)



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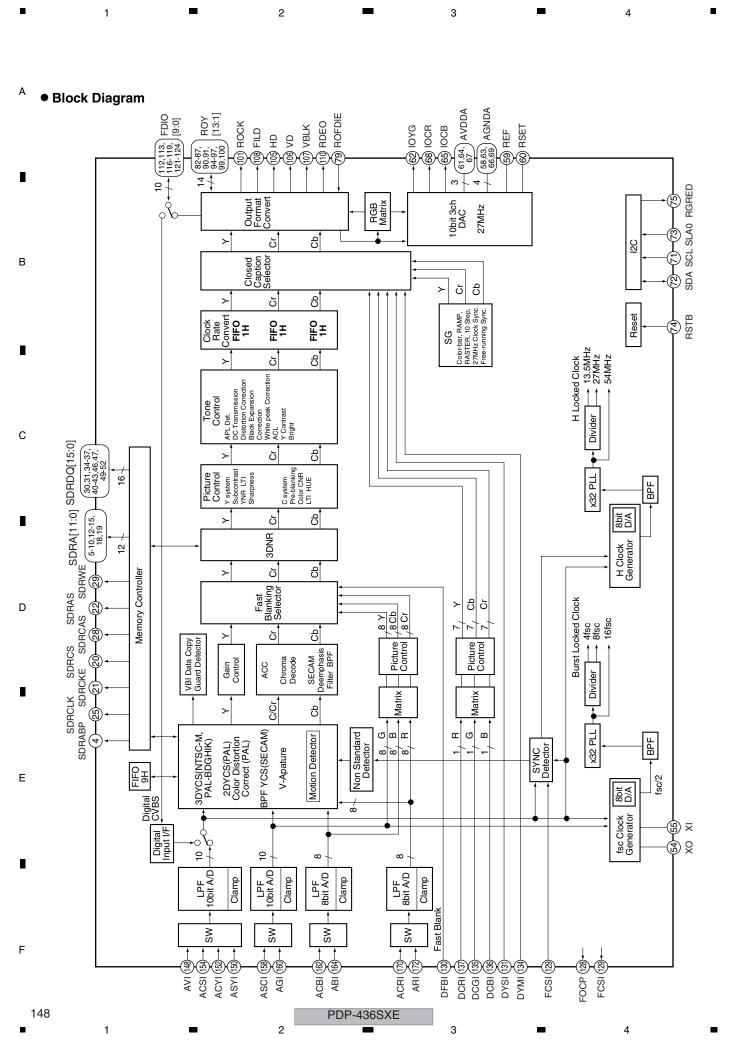
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### Pin Function

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	n Function		
No.	Pin Name	I/O	Pin Function
1	DVDD3	_	Digital power supply (3.3V)
2	SCKSET	I	Test mode selection (L: Normal, H: Test mode)
3	TEST	I	Test setting (L: Normal, H: Test mode)
4	SDRABP	0	All bank precharge output for external memory (Active High)
5	SDRA11	0	Address output for external memory
6	SDRA10	0	Address output for external memory
7	SDRA9	0	Address output for external memory
8	SDRA8	0	Address output for external memory
9	SDRA7	0	Address output for external memory
10	SDRA6	0	Address output for external memory
11	DVDD3	_	Digital power supply (3.3V)
12	SDRA5	0	Address output for external memory
13	SDRA4	0	Address output for external memory
14	SDRA3	0	Address output for external memory
15	SDRA2	0	Address output for external memory
16	DVDD1	_	Digital power supply (1.5V)
17	DGND	_	Digital ground
18	SDRA1	0	Address output for external memory
19	SDRA0	0	Address output for external memory
20	SDRCS	0	Chip select output for external memory (Active Low)
21	SDRCKE	0	Clock enable output for external memory (Active High)
22	SDRRAS	0	Row address strobe output for external memory (Active Low)
23	DVDD1	-	Digital power supply (1.5V)
24	DGND	<b>1</b> –	Digital ground
25	SDRCLK	0	Clock output for external memory
26	DVDD3	1 -	Digital power supply (3.3V)
27	DVDD1	_	Digital power supply (1.5V)
28	SDRCAS	0	Column address strobe output for external memory (Active Low)
29	SDRWE	0	Write enable output for external memory (Active Low)
30	SDRDQ7	I/O	Data input/output for external memory
31	SDRDQ8	I/O	Data input/output for external memory
32	DVDD1	_	Digital power supply (1.5V)
33	DGND	_	Digital ground
34	SDRDQ6	I/O	Data input/output for external memory
35	SDRDQ9	I/O	Data input/output for external memory
36	SDRDQ5	I/O	Data input/output for external memory
37	SDRDQ10	I/O	Data input/output for external memory
38	DGND	-	Digital ground
39	DVDD1	<u> </u>	Digital power supply (1.5V)
40	SDRDQ4	I/O	Data input/output for external memory
41	SDRDQ11	I/O	Data input/output for external memory
42	SDRDQ3	I/O	Data input/output for external memory
43	SDRDQ12	I/O	Data input/output for external memory
44	DVDD3	-	Digital power supply (3.3V)
45	DGND	† <u>-</u>	Digital ground
46	SDRDQ2	I/O	Data input/output for external memory
47	SDRDQ13	I/O	Data input/output for external memory
48	DVDD1	-	Digital power supply (1.5V)
49	SDRDQ1	I/O	Data input/output for external memory
50	SDRDQ14	1/0	Data input/output for external memory
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No.	Pin Name	I/O	Pin Function			
51	SDRDQ0	I/O	Data input/output for external memory			
52	SDRDQ15	I/O	Data input/output for external memory			
53	DVDD3	_	Digital power supply (3.3V)			
54	XO	0	eference clock output Connect a 24.576MHz crystal.			
55	XI	I	Reference clock input Connect a 24.576MHz crystal.			
56	DGND	_	gital ground			
57	DVDD1	_	igital power supply (1.5V)			
58	AGNDA	_	Analog ground for DAC			
59	REF	I	External reference input			
60	RSET	0	Connect a 620 ohm resistor for external adjustment to AGND			
61	AVDDA	_	Analog power supply for DAC (3.3V)			
62	IOYG	0	Color-difference component Y / RGB component G output signal			
63	AGNDA	_	Analog ground for DAC			
64	AVDDA	l –	Analog power supply for DAC (3.3V)			
65	IOGB	0	Color-difference component Cb / RGB component B output signal			
66	AGNDA	_	Analog ground for DAC			
67	AVDDA	_	Analog power supply for DAC (3.3V)			
68	IOCR	0	Color-difference component Cr / RGB component R output signal			
69	AGNDA	-	Analog ground for DAC			
70	DVDD1	_	Digital power supply (1.5V)			
71	SCL		I <sup>2</sup> C bus clock input Connect to SCL line of the system.			
72	SDA	1/0	I <sup>2</sup> C bus data input/output Connect to SDA line of the system.			
73	SLA0	1	I <sup>2</sup> C bus slave address select input (L: B8h/B9h, H: BAh/BBh)			
74	RSTB	1	System reset input (Active Low)			
75	RGRED	0	<sup>2</sup> C register read flag output (Active Low)			
76	DVDD1	_	Digital power supply (1.5V)			
77	FCKM	ı	FCLK8 test mode selection (L: Normal, H: Test mode)			
78	FCLK8	I/O	Line-lock clock monitor input/output			
79	ROFDIE	ı	Output enable of the video input/output terminal L: Output terminal Hi-Z, H: Output enable			
80	DGND	_	Digital ground			
81	DVDD1	<b> </b>	Digital power supply (1.5V)			
82	ROY13	0	Digital ITU-R BT. 656/component output  Digital RGB component (8 bit) output			
83	ROY12	0	Digital ITU-R BT. 656/component output			
84	ROY11	0	Digital ITU-R BT. 656/component output			
85	ROY10	0	Digital ITU-R BT. 656/component output			
86	ROY9	0	Digital ITU-R BT. 656/component output  Digital RGB component (8 bit) output			
87	ROY8	0	Digital ITU-R BT. 656/component output  Digital RGB component (8 bit) output			
88	DVDD3	_	Digital power supply (3.3V)			
89	DGND	-	Digital ground			
90	ROY7	0	Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output			
91	ROY6	0	Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output			
92	DVDD1	_	Digital power supply (1.5V)			
93	DGND	_	Digital ground			
94	ROY5	0	Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output			
95	ROY4	0	Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output			
96	ROY3	0	Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output			
97	ROY2	0	Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output			
98	DVDD3	_	Digital power supply (3.3V)			
99	ROY1	0	Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output			
100	ROY0	0	Digital ITU-R BT. 656/component output Digital RGB component (8 bit) output			

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No.	Pin Name	I/O	Pin Function
101	ROCK	0	Clock for digital ITU-R BT. 656/component output
102	BCLK8	I/O	Line-lock clock monitor input/output
103	DVDD1	_	Digital power supply (1.5V)
104	DGND	_	Digital ground
105	HD	0	Horizontal sync. signal output
106	VD	0	Vertical sync. signal output
107	VBLK	0	V blanking output
108	FILD	0	Field output
109	DVDD3	_	Digital power supply (3.3V)
110	RDEO	0	Effective pixel area output
111	BCKM	ı	Test mode selection of BCLK8 pin (L: Normal, H: Test mode)
112	FDIO0	I/O	Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use.
113	FDIO1	I/O	Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use.
114	DGND	T -	Digital ground
115	DVDD1	_	Digital power supply (1.5V)
116	FDIO2	I/O	Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use.
117	FDIO3	I/O	Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use.
118	FDIO4	1/0	Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection  Open at no use.
119	FDIO5	1/0	Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection  Open at no use.
120	DVDD3	-	Digital power supply (3.3V)
121	FDIO6	I/O	Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use.
122	FDIO7	1/0	Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection  Open at no use.
	FDIO8	1/0	Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use.
124	FDIO9	1/0	Digital 8/10 bit Cb, Cr output / Input at UPD64031A digital connection Open at no use.
125	DVDD1	"-	Digital power supply (1.5V)
126	DGND	<u> </u>	Digital ground
	FCKQ	I/O	Sampling clock output for digital connection
	FOCP	1/0	Clamp pulse output for digital connection / Timing output for digital RGB input (VD)
	FCSI	1/0	Sync sep. signal input / Timing output for RGB input (HD)
	DFBI	1/0	Fast blanking signal input for analog RGB input
	DYSI	† †	YS signal input for digital RGB input
	DVDD3	† <u>-</u>	Digital power supply (3.3V)
	DVDD1	† _	Digital power supply (1.5V)
	DYMI	1	YM signal input for digital RGB input
135	DCGI	† †	Digital RGB/G signal input
	DCBI	† †	Digital RGB/B signal input
	DCRI	T i	Digital RGB/R signal input
138	AVDD1	+ -	Analog power supply (1.5V)
139	ATS1	+-	Analog test input Normally, connect to GND.
140	ATS2	<del> </del>	Analog test input Normally, connect to GND.
141	AVDD3	+	Analog power supply (3.3V)
142	ATS3	† <u> </u>	Analog test input Normally, connect to GND.
	AGND	<del> </del>	Analog ground
	AGND	1 _	Analog ground
	AGND	1 _	Analog ground
146	VCLY	0	ADC1 clamp voltage
	VCOM1	+ -	ADC1 common-mode reference voltage

ADC1 common-mode reference voltage Analog test output Connect to GND via  $0.1 \mu F$  capacitor. 151 PDP-436SXE 8

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VCOM1

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148 AVI

149 VLPFI

150 ASYI

ADC1 composite/Y signal input

ADC1 composite/Y signal input

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No.	Pin Name	I/O	Pin Function
151	VRB1	_	ADC1 bottom reference voltage
152	ACYI	ı	ADC1 composite/Y signal input
153	VRT1	_	ADC1 top reference voltage
154	ACSI	ı	ADC1 composite/Y signal input
155	AVDD3	-	Analog power supply for ADC (3.3V)
156	AVDD3	-	Analog power supply for ADC (3.3V)
157	VRT2	-	ADC2 top reference voltage
158	ASCI	ı	ADC2 separate C signal input
159	VRB2	_	ADC2 bottom reference voltage
160	AGI	I	ADC2 RGB component G signal input
161	VCOM2	-	ADC2 common-mode reference voltage
162	ACBI	I	ADC3 color-difference component Cb signal input
163	VRT3	_	ADC3 top reference voltage
164	ABI	I	ADC3 RGB component B signal input
165	VRB3	-	ADC3 bottom reference voltage
166	VCOM3	_	ADC3 common-mode reference voltage
167	AVDD3	_	Analog power supply for ADC (3.3V)
168	AVDD3	_	Analog power supply for ADC (3.3V)
169	VCOM4	_	ADC4 common-mode reference voltage
170	ACRI	ı	ADC4 color-difference component Cr signal input
171	VLPF2	_	Analog test output
172	ARI	I	ADC3 RGB component R signal input
173	VRB4	_	ADC4 bottom reference voltage
174	VRT4	_	ADC4 top reference voltage
175	AGND	_	Analog ground

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176 AGND

Analog ground

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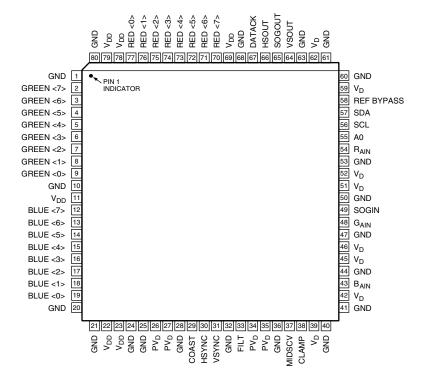
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# ■ AD9985KSTZ-110 (OBE MAIN ASSY : IC6201)

• ADC

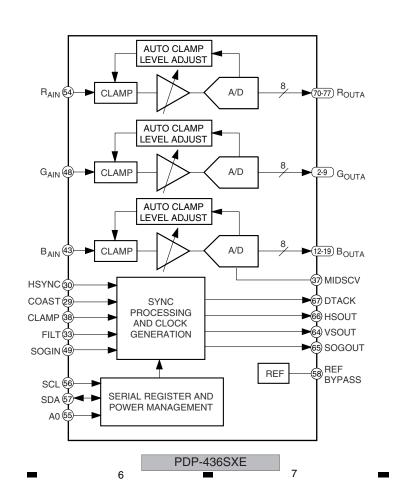
#### Pin Arrangement (Top view)

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#### Block Diagram

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# Pin Function

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Pin Type	No.	PIN Name	Pin Function
	54	Rain	Analog input for converter R
	48	Gain	Analog input for converter G
	43	BAIN	Analog input for converter B
l	30	HSYNC	Horizontal sync input
Inputs	31	VSYNC	Vertical sync input
	49	SOGIN	Input for sync-on green
	38	CLAMP	Clamp input (External CLAMP signal)
	29	COAST	PLL COAST signal input
	70-77	Red [7:0]	Outputs of converter red, bit 7 is the MSB
	2-9	Green [7 : 0]	Outputs of converter green, bit 7 is the BSB
	12-19	Blue [7 : 0]	Outputs of converter blue, bit 7 is the BSB
Outputs	67	DATACK	Data output clock
	66	HSOUT	HSYNC output (Phase-aligned with DATACK)
	64	VSOUT	VSYNC output (Phase-aligned with DATACK)
	65	SOGOUT	Sync-on-green slicer output
	58	REF BYPASS	Internal reference bypass
Reference	37	MIDSCV	Internal midscale voltage bypass
	33	FILT	Connection for external filter components for internal PLL
	39, 42, 45, 46, 51, 52, 59, 62	<b>V</b> D	Analog power supply
	11, 22, 23, 69, 78, 79	VDD	Output power supply
Power Supply	26, 27, 34, 35	PVD	PLL power supply
	1, 10, 20, 21, 24, 25, 28, 32, 36, 40, 41, 44, 47, 50, 53, 60, 61, 63 68, 80	GND	Ground
	57	SDA	Serial port data I/O
Control	56	SCL	Serial port data clock (100 kHz maximum)
	55	A0	Serial port address input 1

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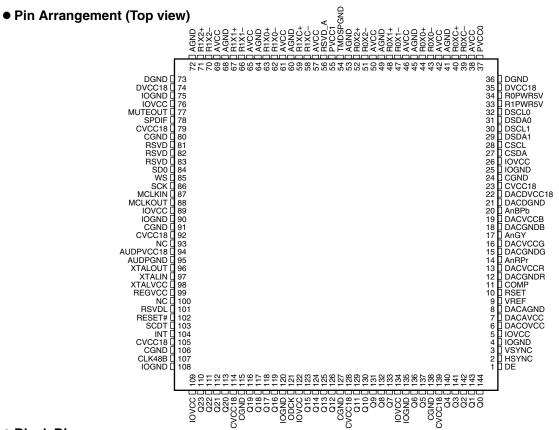
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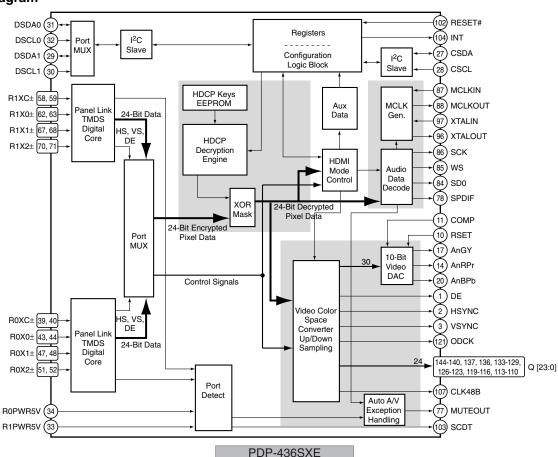
# ■ SII9021CTU (OBE MAIN ASSY: IC6404)

• HDMI Rx



#### Block Diagram

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# • Pin Function

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Г		Din Name	I/O	Din Function
ŀ	No.	Pin Name		Pin Function
-	1	DE	0	Data enable
╌	2	HSYNC	0	Horizontal sync output control signal
ŀ	3	VSYNC	0	Vertical sync output control signal
ŀ	4	IOGND	_	Input / output pin ground
ŀ	5	IOVCC	_	Input / output pin VCC
-	6	DACOVCC	_	DAC output VCC
	7	DACAVCC	_	DAC analog VCC
ŀ	8	DACAGND	_	DAC analog ground
L	9	VREF	_	-
L	10	RSET	_	Full scale adjust resistor
ļ	11	COMP	_	Compensation
L	12	DACGNDR	_	DAC red ground
	13	DACVCCR	_	DAC red VDD
L	14	AnRPr	0	Analog video red, Pr output
L	15	DACGNDG	_	DAC green ground
	16	DACVCCG	_	DAC green VDD
Γ	17	AnGY	0	Analog video green, Y output
	18	DACGNDB	_	DAC blue ground
Ī	19	DACVCCB	_	DAC blue VDD
Ī	20	AnBPb	0	Analog video blue, Pb output
Ī	21	DACDGND	_	DAC digital ground
Ī	22	DACDVCC18	_	DAC digital VCC
ı	23	CVCC18	_	Digital logic VCC
ŀ	24	CGND	_	Digital logic ground
ŀ	25	IOGND	_	Input / output pin ground
ŀ	26	IOVCC	_	Input / output pin VCC
ŀ	27	CSDA	I/O	Configuration I <sup>2</sup> C data
ŀ	28	CSCL	1	Configuration I <sup>2</sup> C clock
ŀ	29	DSDA1	I/O	DDC I <sup>2</sup> C data for port 1
ŀ	30	DSCL1	ı	DDC I <sup>2</sup> C clock for port 1
ŀ	31	DSDA0	I/O	DDC I <sup>2</sup> C data for port 0
ŀ	32	DSCL0	I	DDC I <sup>2</sup> C clock for port 0
╌	33	R1PWR5V	ı	Port 1 transmitter detect
ŀ	34	R0PWR5V	+	
╌			I	Port 0 transmitter detect
╌	35	DVCC18	_	ACR PLL ground
ŀ	36	DGND	_	ACR PLL ground
ŀ	37	PVCC0	_	TMDS port 0 PLL VCC
╌	38	AVCC	-	TMDS analog VCC
╌	39	R0XC-	<u> </u>	TMDS input clock
ŀ	40	R0XC+	I	TMDS input clock
╌	41	AGND	_	TMDS analog ground
╌	42	AVCC		TMDS analog VCC
-	43	R0X0-	I	TMDS input data
	44	R0X0+	I	TMDS input data
	45	AGND	-	TMDS analog ground
1	46	AVCC	_	TMDS analog VCC
	47	R0X1-	I	TMDS input data
	48	R0X1+	I	TMDS input data
	49	AGND	_	TMDS analog ground
Ĺ	50	AVCC	_	TMDS analog VCC

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No.	Pin Name	I/O	Pin Function
51	R0X2-	I	TMDS input data
52	R0X2+	I	TMDS input data
53	AGND	_	TMDS analog ground
54	TMDSPGND	_	TMDS PLL ground
55	PVCC1	_	TMDS port 1 PLL VCC
56	RSVD_A	_	Reserved pin
57	AVCC	_	TMDS analog VCC
58	R1XC-	I	TMDS input clock
59	R1XC+	I	TMDS input clock
60	AGND	_	TMDS analog ground
61	AVCC	_	TMDS analog VCC
62	R1X0-	I	TMDS input data
63	R1X0+	ı	TMDS input data
64	AGND	_	TMDS analog ground
65	AVCC	_	TMDS analog VCC
66	R1X1-		TMDS input data
67	R1X1+	1	TMDS input data
68	AGND	_	TMDS analog ground
69	AVCC	_	TMDS analog VCC
70	R1X2-	1	TMDS input data
71	R1X2+	<u> </u>	TMDS input data
72	AGND	+ -	TMDS analog ground
73	DGND	+ -	ACR PLL ground
74	DVCC18		ACR PLL digital VCC
75	IOGND		
			Input / output pin ground
76	IOVCC	-	Input / output pin VCC
77	MUTEOUT	0	Mute audio output
78	SPDIF	0	S/PDIF audio output
79	CVCC18		Digital logic VCC
80	CGND	<u> </u>	Digital logic ground
81	RSVD	0	-
82	RSVD	0	-
83	RSVD	0	-
84	SD0	0	I <sup>2</sup> S serial data output
85	WS	0	I2S word select output
86	SCK	0	I <sup>2</sup> S serial clock output
87	MCLKIN	I	Audio master clock input reference
88	MCLKOUT	0	Audio master clock output
89	IOVCC		Input / output pin VCC
90	IOGND		Input / output pin ground
91	CGND	_	Digital logic ground
92	CVCC18	_	Digital logic VCC
93	NC	-	No connection
94	AUDPVCC18	_	ACR PLL VCC
95	AUDPGND	_	ACR PLL ground
96	XTALOUT	0	Crystal clock output
97	XTALIN	ı	Crystal clock input
98	XTALVCC	_	ACR PLL crystal input VCC
99	REGVCC	_	ACR PLL regulator VCC
100	NC	_	No connection
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	No.	Pin Name	I/O	Pin Function
	101	RSVDL	I	Reserved, must be tied LOW
Γ	102	RESET#	I	Reset pin, active LOW
	103	SCDT	0	Indicates active video at HDMI input port
Γ	104	INT	0	Interrupt output
Γ	105	CVCC18	-	Digital logic VCC
	106	CGND	-	Digital logic ground
	107	CLK48B	I/O	Data bus latch enable
Γ	108	IOGND	-	Input / output pin ground
Γ	109	IOVCC	-	Input / output pin VCC
	110	Q23	0	24-bit output pixel data bus
	111	Q22	0	24-bit output pixel data bus
	112	Q21	0	24-bit output pixel data bus
	113	Q20	0	24-bit output pixel data bus
	114	CVCC18	-	Digital logic VCC
	115	CGND	-	Digital logic ground
	116	Q19	0	24-bit output pixel data bus
	117	Q18	0	24-bit output pixel data bus
	118	Q17	0	24-bit output pixel data bus
	119	Q16	0	24-bit output pixel data bus
	120	IOGND	-	Input / output pin ground
	121	ODCK	0	Output data clock
	122	IOVCC	-	Input / output pin VCC
	123	Q15	0	24-bit output pixel data bus
	124	Q14	0	24-bit output pixel data bus
	125	Q13	0	24-bit output pixel data bus
	126	Q12	0	24-bit output pixel data bus
	127	CGND	_	Digital logic ground
	128	CVCC18	_	Digital logic VCC
	129	Q11	0	24-bit output pixel data bus
	130	Q10	0	24-bit output pixel data bus
	131	Q9	0	24-bit output pixel data bus
L	132	Q8	0	24-bit output pixel data bus
L	133	Q7	0	24-bit output pixel data bus
L	134	IOVCC	-	Input / output pin VCC
L	135	IOGND	-	Input / output pin ground
L	136	Q6	0	24-bit output pixel data bus
L	137	Q5	0	24-bit output pixel data bus
	138	CGND	_	Digital logic ground
	139	CVCC18	_	Digital logic VCC
	140	Q4	0	24-bit output pixel data bus
	141	Q3	0	24-bit output pixel data bus
	142	Q2	0	24-bit output pixel data bus
	143	Q1	0	24-bit output pixel data bus
L	144	Q0	0	24-bit output pixel data bus

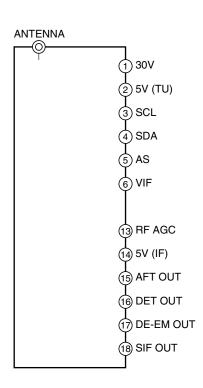
F

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# ■ AXF1149 (OBE MAIN ASSY : U4401)

• Front End

# • Pin Arrangement



#### Pin Function

No.	Pin Name	Pin Function
1	30V	Power supply for 30V
2	5V (TU)	Power supply for tuner
3	SCL	
4	SDA	Terminal for I <sup>2</sup> C bus control
5	AS	
6	VIF	VIF output
13	RF AFG	RF AGC terminal
14	5V (IF)	Power supply for IF
15	AFT OUT	Analog AFT output
16	DET OUT	VIDEO output (Typical = 1.0Vp-p)
17	DE-EM OUT	Audio output
18	SIF OUT	SIF output

159

В

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PDP-436SXE 7

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1 2 3 4

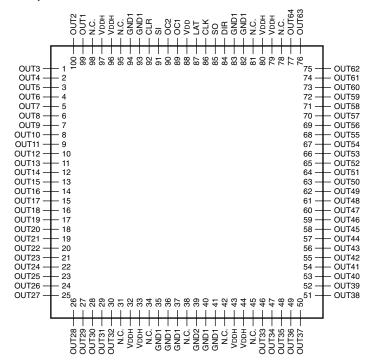
■ SN755870PZT (43 SCAN A ASSY : IC2701 - IC2706) (43 SCAN B ASSY : IC2801 - IC2806)

• Plasma Display Panel IC

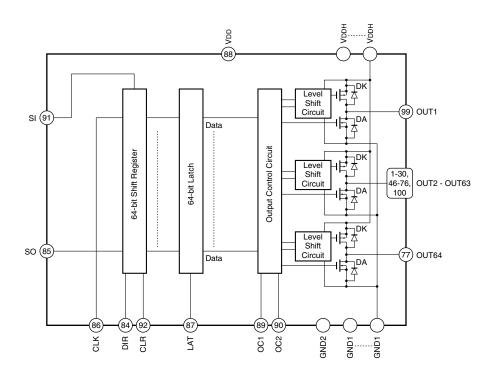
Α

В

#### Pin Arrangement (Top view)



#### Block Diagram



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# • Pin Function

No.	Pin Name	I/O	Pin Function	on
1 - 30	OUT3 - OUT32	0	High-voltage push-pull output	
31	N.C.	_	Not connected	
32 - 33	VDDH	_	High-voltage circuit supply	
34	N.C.	_	Not connected	
35 - 37	GND1	_	Ground	
38	N.C.	_	Not connected	
39	GND2	_	Ground	
40 - 41	GND1	_	Ground	
42	N.C.	_	Not connected	
43 - 44	VDDH	_	High-voltage circuit supply	
45	N.C.	_	Not connected	
46 - 77	OUT33 - OUT64	0	High-voltage push-pull output	
78	N.C.	_	Not connected	
79 - 80	VDDH	_	High-voltage circuit supply	
81	N.C.	_	Not connected	
82 - 83	GND1	_	Ground	
84	DIR	ı	Setup of shift register shift direction L = Shift into reverse (SO $\rightarrow$ SI) H = Shift forward	d (SI → SO)
85	SO	I/O	Serial data input / output	
86	CLK	ı	Serial clock input Fetch SI or SO data to shift reg	ister by CLK rise edge
87	LAT	ı	LAT data input L = Transfer shift register data to output latch H =	= Hold data to output latch
88	VDD	_	Logic supply	
89	OC1	ı	Output control	OC1 OC2 OUT L L ALL Hi-Z
90	OC2	1	Control output according to the right truth value table	L         H         DATA           H         L         ALL L           H         H         ALL H
91	SI	I/O	Serial data input / output	
92	CLR	ı	All output reset CLR pin : L → Normal operation	CLR pin : $H \rightarrow All$ output High
93 - 94	GND1	_	Ground	
95	N.C.	_	Not connected	
96 - 97	VDDH	_	High-voltage circuit supply	
98	N.C.	_	Not connected	
99 - 100	OUT1 - OUT2	0	High-voltage push-pull output	

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PDP-436SXE

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# **■** 2 **■** 3 **■** 4

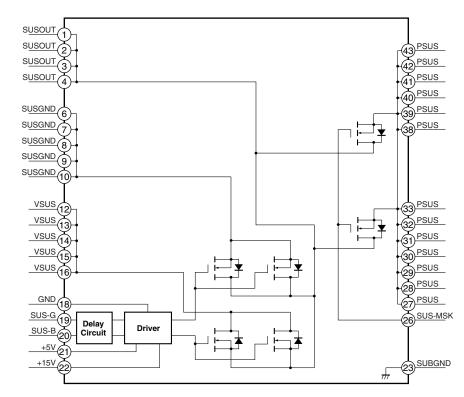
# ■ AXF1143 (43 X DRIVE ASSY : IC1202)

• X Mask Module

# Block Diagram

В

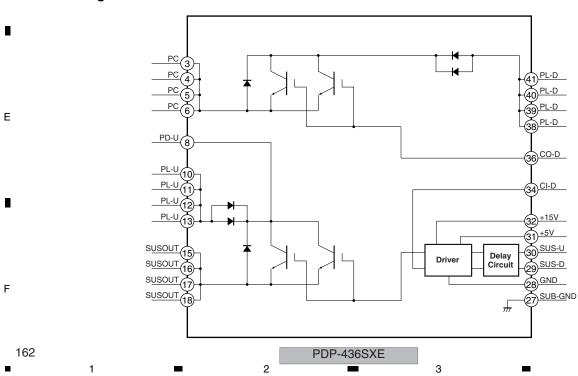
D



# ■ AXF1145 (43 X DRIVE ASSY : IC1101) (43 Y DRIVE ASSY : IC2101)

• DK Module

### Block Diagram

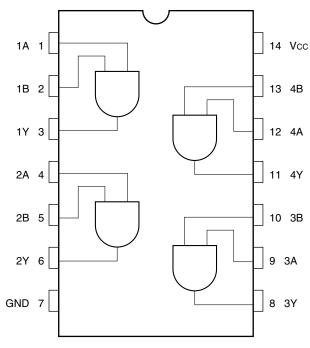


# ■ TC74VHC08FTS1 (43 Y DRIVE ASSY : IC2003, IC2005)

• Quad 2-input AND Gate

5

# • Pin Arrangement (Top view) / Block Diagram



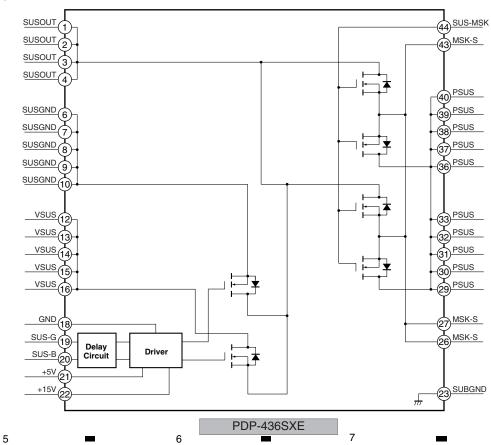
#### • Truth Table

Α	В	Υ
L	L	L
L	Н	L
Н	L	L
Н	Н	Н

# ■ AXF1144 (43 Y DRIVE ASSY : IC2252, IC2253)

• Y Mask Module

### Block Diagram



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8

В

С

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# ■ M62334FP (OB DIGITAL ASSY : IC3157)

• 8-bit 4ch I2C Bus D-A Converter with Buffer Amplifier

# • Pin Arrangement (Top view)

# AO1 1 8 VCC AO2 2 7 SCL AO3 3 6 SDA AO4 4 5 GND

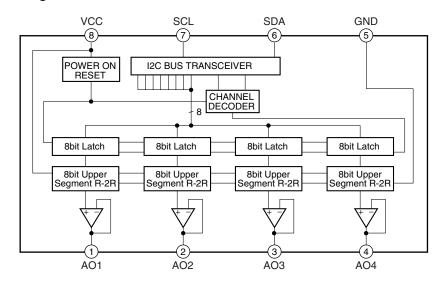
#### Pin Function

3

No.	Pin Name	Pin Function	
1	AO1		
2	AO2	O leit was allution D. A someonton autout	
3	AO3	8-bit resolution D-A converter output	
4	AO4		
5	GND	Ground	
6	SDA	Serial data input	
7	SCL	Serial clock input	
8	vcc	Power supply	

# Block Diagram

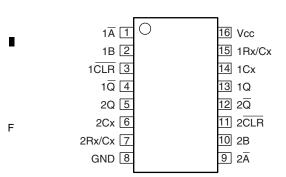
В



# ■ TC74VHC123AFTS1 (OB DIGITAL ASSY : IC3160)

• Dual Monostable Multivibrator/AFN/AFT Retriggerble

#### • Pin Arrangement (Top view)



#### • Truth Table

	Inputs			puts	Note					
Ā	В	CLR	Ø	Q	Note					
7_	Н	Н		T	Output enable					
Х	L	Н	L	Н	Inhibit					
Н	Х	Н	L	Н	Inhibit					
L	L	Н	7	T	Output enable					
L	Η		J	П	Output enable					
Х	Х	Ĺ	Ĺ	Н	Reset					

X: Don't care

3

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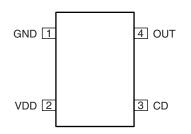
Ε

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# ■ PST3610UR (OB DIGITAL ASSY : IC3304) • Reset IC

# • Pin Arrangement (Top view)

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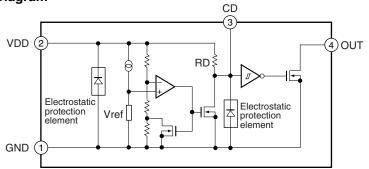


### • Pin Function

No.	Pin Name	Pin Function
1	GND	Ground
2	VDD	Power supply / Voltage detection
3	CD	Capacitor connect pin for delay
4	OUT	Reset signal output

• Block Diagram

5



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В

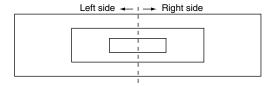
С

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# ■ PEG122C (OB DIGITAL ASSY : IC3401)

• LSI for PDP video processing (SEQUENCE PROCESSOR)

# • Pin Arrangement (Top view)



### • Left side (Top view)

				•										
В		1	2	3	4	5	6	7	8	9	10	11	12	13
	Α	BAI5	GAI1	GAI4	GAI9	RAI4	RAI9	BBI0	BBI6	GBI1	GBI5	RBI1	RBI7	TRNSEND1
	В	BAI4	GAI0	GND33	GAI8	RAI3	RAI8	HDI	BBI5	GBI0	GDN33	RBI0	RBI6	TRNSEND0
	C	BAI3	BAI9	VDD33	GAI7	RAI2	RAI7	VDI	BBI4	BBI9	VDD33	GBI9	RBI5	VDD33
	D	BAI2	BAI8	GAI3	GAI7	RAI1	RAI6	DEI	BBI3	BBI8	GBI4	GBI8	RBI4	RBI9
	E	BAI1	BAI7	GAI2	GAI5	RAI0	RAI5	DCLKI	BBI2	BBI7	GBI3	GBI7	RBI3	RBI8
	F	BAI0	BAI6	PEAK	APLDT	THEATER	GND12	VDD12	BBI1	VDD12	GBI2	GBI6	RBI2	VDD12
	G	XSCAN20	XSCAN19	XSCAN18	XSCAN17	XSCAN16	VDD12	VDD12	DOIT	V0012	GDIZ	abio	TIDIZ	V0012
	Н	XSCAN15	XSCAN14	XSCAN13	XSCAN12	XSCAN11	VDDTC12							
	J	XSCAN10	GND33	VDD33	XSCAN9	GNDTC12	VDD1012							
	K	XSCAN8	XSCAN7	XSCAN6	XSCAN5	XSCAN4	VDDTC12							
		XSCAN3	XSCAN2	XSCAN1	XSCAN0	GND12	VDD1012				1	GND12	GND12	GND12
	М	XSUS10	XSUS9	XSUS8	XSUS7	GNDTC12	VDD12					GND12 GND12	GND12 GND12	GND12 GND12
		XSUS6	GND33	VDD33	XSUS5	GND12	VDD12					-		GND12 GND12
)	N P	XSUS4	XSUS3	XSUS2	XSUS1	XSUS0	VDDTC12					GND12	GND12	
	•	ADRS0	ADRS1	ADRS2	ADRS3	GNDTC12	VDD1012					GND12	GND12	GND12
	R	TEST IO	GND33	VDD33	TEST I1	TEST I2	TEST R					GND12	GND12	GND12
		TXOUTM063	TXOUTP063	GNDLA	VDDLA	GNDLA	VDDL12					GND12	GND12	GND12
	U V		TXCLKOUTP063	GNDLA	VDDLA	GNDLA	VDDL12							
	•	TXOUTM062	TXOUTP062	GNDLA	VDDLA	GNDLA	VDDLA							
	W	TXOUTM062	TXOUTP062	GNDLA	VDDLA	GNDLA	VDDL12							
	•	TXOUTM060	TXOUTP061	GNDLA	VDDLA	VDDLA	VDDL12 VDDLA	VDDLA	VDDL12	VDDLA	VDDLA	VDDL12	VDDLA	VDDLA
-	AA	TXOUTM060	TXOUTP060	GNDLA	VDDLA	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	VDDBG	REFIN
	AB		TXCLKOUTP073	GNDLA	VDDLA	VDDLA	VDDLA	VDDLA	VDDLA	VDDLA	VDDLA	VDDLA	VDDBG	VDDLA
	AC	TXOUTM072		GNDLA	GNDLA		GNDLA		GNDLA	GNDLA		GNDLA		GNDLA
	AD		TXOUTP072			GNDLA TXCLKOUTP03		GNDLA			GNDLA		GNDLA	
	ΑE	TXOUTM071	TXOUTP071	GNDLA	TXOUTP033		TXOUTP032	TXOUTP031	TXOUTP030	TXOUTP023	TXCLKOUTP02	TXOUTP022	TXOUTP021	TXOUTP020
	ΑF	TXOUTM070	TXOUTP070	GNDLA	TXOUTM033	TXCLKOUTM03	TXOUTM032	TXOUTM031	TXOUTM030	TXOUTM023	TXCLKOUTM02	TXOUTM022	TXOUTM021	TXOUTM020

### • Right side (Top view)

	14	15	16	17	18	19	20	21	22	23	24	25	26
Α	CLKD	VSSPA	EXDI011	EXDI09	EXA4	EXA10	EXA2	EXA16	EXA20	CSCS_N1	CSCS_N2	CSIOSCK1	CSIORXD
В	CSRD_N	VCCPA	EXDI04	GND33	EXA3	EXA9	EXA1	EXA15	EXA19	CSCS_N0	GND33	TCRAM_MONITOR0	TCRAM_MONITOR1
С	CLKS	CLK_MONI	EXDI012	VDD33	EXDI00	EXA8	CSWR_N	EXA14	EXA18	UARTRXD	VDD33	TCRAM_MONITOR2	CSIORQ
D	VSSPB	EXDI014	EXDI05	EXDI02	EXDI08	EXA7	EXA0	EXA13	EXA17	UARTTXD	CS10TXD	RESETX	SDIJTAG
E	VCCPB	EXDI07	EXDI013	EXDI010	EXDI01	EXA6	EXA11	EXA12	CSEXWAIT_N	SDITRST_N	SDITCK	SDIDBI_N	SDITMS
F	LPFMONI	EXDI015	EXDI06	EXDI03	VDD12	EXA5	VDD12	GND12	SDITDO	SDITDI	GPI000	GPI001	GPI002
G				-				VDD12	GPI003	GPI004	GPI005	GPI006	GPI007
Н								VDDTC12	YSCAN20	YSCAN19	YSCAN18	YSCAN17	YSCAN16
J								VDD12	GNDTC12	YSCAN15	VDD33	GND33	YSCAN14
Κ								VDDTC12	YSCAN13	YSCAN12	YSCAN11	YSCAN10	YSCAN9
L	GND12	GND12	GND12					VDD12	GND12	YSCAN8	YSCAN7	YSCAN6	YSCAN5
M	GND12	GND12	GND12					VDD12	GNDTC12	YSCAN4	YSCAN3	YSCAN2	YSCAN1
N	GND12	GND12	GND12	İ				VDD12	GND12	YSCAN0	VDD33	GND33	VSUS10
Р	GND12	GND12	GND12					VDDTC12	YSUS9	YSUS8	YSUS7	YSUS6	VSUS5
R	GND12	GND12	GND12	İ				VDD12	GNDTC12	YSUS4	YSUS3	YSUS2	VSUS1
Т	GND12	GND12	GND12					YSUS0	RSV1	RSV0	VDD33	GND33	AFE_PS_N
U		-		ı				VDDL12	GNDLA	VDDLA	GNDLA	TXOUTP050	TXOUTM050
٧								VDDLA	GNDLA	VDDLA	GNDLA	TXOUTP051	TXOUTM051
W								VDDLA	GNDLA	VDDLA	GNDLA	TXOUTP052	TXOUTM052
Υ								VDDL12	GNDLA	VDDLA	GNDLA	TXCLKOUTP05	TXCLKOUTM05
AA	VDDLA	VDDLA	VDDL12	VDDLA	VDDLA	VDDL12	VDDLA	VDDLA	VDDLA	VDDLA	GNDLA	TXOUTP053	TXOUTM053
AB	VREF12	GNDBG	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	VDDLA	GNDLA	TXOUTP040	TXOUTM040
AC	VDDLA	VDDLA	VDDLA	VDDLA	VDDLA	VDDLA	VDDLA	VDDLA	VDDLA	VDDLA	GNDLA	TXOUTP041	TXOUTM041
AD	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	GNDLA	TXOUTP042	TXOUTM042
ΑE	TXOUTP013	TXCLKOUTP01	TXOUTP012	TXOUTP011	TXOUTP010	TXOUTP003	TXCLKOUTP00	TXOUTP002	TXOUTP001	TXOUTP000	GNDLA	TXCLKOUTP04	TXCLKOUTM04
AF	TXOUTM013	TXCLKOUTM01	TXOUTM012	TXOUTM011	TXOUTM010	TXOUTM003	TXCLKOUTM00	TXOUTM002	TXOUTM001	TXOUTM000	GNDLA	TXOUTP043	TXOUTM043

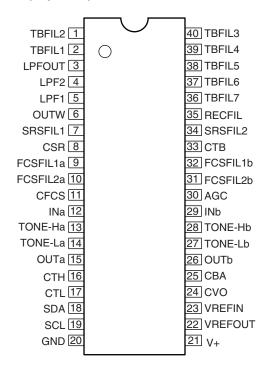
166

# ■ NJW1183GK1 (AUDIO ASSY : IC3753)

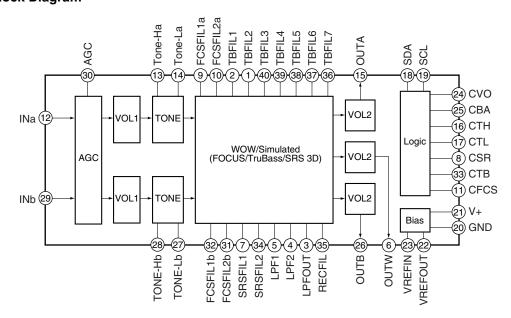
• FOCUS & SRS IC

5

#### Pin Arrangement (Top view)



#### Block Diagram



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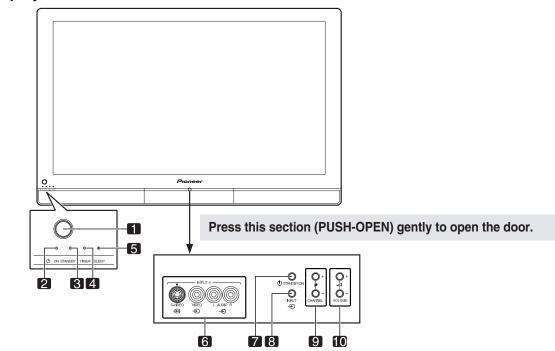
# 8. PANEL FACILITIES



Front view

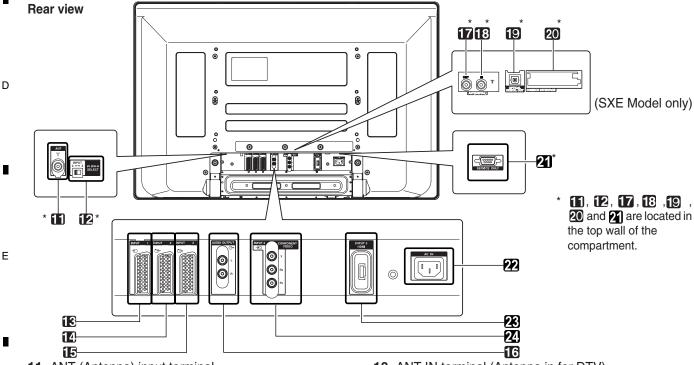
В

С



3

- **POWER** button
- POWER ON indicator
- STANDBY indicator
- TIMER(SXE) /PIC OFF(RXE) indicator
- 5 SLEEP indicator
- **INPUT 4 terminals** 
  - **STANDBY/ON** button
- **INPUT** button
- **CHANNEL** +/- buttons
- 10 VOLUME +/- buttons



- 11 ANT (Antenna) input terminal
- 12 i/o link.A SELECT switch13 INPUT 1 terminal (SCART)
- 14 INPUT 2 terminal (SCART)
- 15 INPUT 3 terminal (SCART)
- **16** AUDIO OUTPUT terminals (L R)
- 17 ANT OUT terminal (Antenna through out)

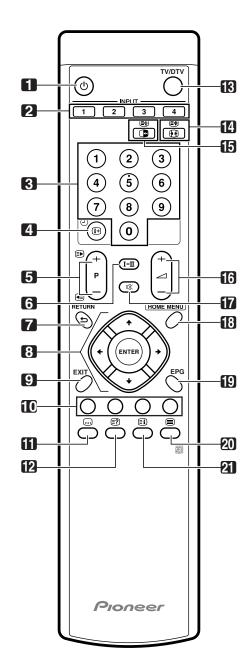
- 18 ANT IN terminal (Antenna in for DTV)
  - Power can be supplied through this terminal.

4

- 19 DIGITAL OUT terminal (OPTICAL)
- 20 COMMON INTERFACE slot
  - For a CA Module with a smart card
- **21** RS232C terminal (used for factory setup)
- 22 AC IN terminal
- 23 HDMI terminal (INPUT 3)
- 24 INPUT 2 terminals (COMPÓNENT VIDEO:Y, PB, PR)

168

#### Remote control unit



# **MOTE**

 When using the remote control unit, point it at the Plasma Display. U

Turns on the power to the Plasma Display or places it into the standby mode.

2 INPUT

Selects an input source of the Plasma Display. (INPUT 1, INPUT 2, INPUT 3, INPUT 4)

3 0 – 9

TV/External input mode: Selects a channel.

TELETEXT mode: Selects a page.

4 (i+) (

TV/External input mode: Displays the channel information. DTV input mode: Displays the banner information.

В

С

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5 P + /P -

TV/External input mode: Selects a channel.

**(1)** 

TELETEXT mode: Selects a page.

6 I-II

Sets the sound multiplex mode.

7 **⇔** RETURN

Restores the previous menu screen.

8 4/+/+/→

Selects a desired itemon the setting screen.

**ENTER** 

Executes a command.

9 EXIT (SXE only)

Returns to the normal screen in one step.

10 Colour (RED/GREEN/YELLOW/BLUE)

TELETEXT mode: Selects a page.

11 (...)

TV/External input mode: Jumps to the Teletext subtitle page. DTV input mode: Turns subtitle on and off.

12 (≣?)

Displays hidden characters.

13 TV/DTV (SXE only)

Switches between the TV and DTV input modes.

14 (₹1)

TV/External input mode: Selects the screen size.

 $\blacksquare$ 

TELETEXT mode: Switches Teletext images. (full/upper half/lower half)

15 🔯

TV/External input mode: Freezes a frame from a moving image. Press again to cancel the function.

TELETEXT mode: Stops updating Teletext pages. Press again to release the hold mode.

16 4 4 -

Sets the volume.

**17** 🕸

Mutes the sound.

18 HOMEMENU

TV/External Input mode: Displays the Menu screen.

19 EPG (SXE only)

Displays the Electronic Programme Guide.

20 🗐

Selects the TELETEXT mode.

(all TV image, all TEXT image, TV/TEXT image)

21 **ા** 

TELETEXT mode: Displays an Index page for the CEEFAX/FLOF format. Displays a TOP Over View page for the TOP format.

# ■ Jigs list

Jig No.	Name	Remarks
GGD1170	40P Extension FFC	Diagnosis of OB DIGITAL Assy at power on state

В

Before shipping out the product, be sure to clean the following positions by using the prescribed cleaning tools:

Position to be cleaned	Cleaning tools
Fans	Cleaning paper : GED-008